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ABSTRACT

This survey on the use of space for each of the nine institutions governed by the Oregon State System of Higher Education contains data relating to the scheduled occupancy of instructional classrooms and laboratories; data relating to the utilization of offices and research spaces; residence hall occupancies; and inventory data pertaining to all space within the area of development of the institutions. The data presented in the first section relate to space available in terms of gross areas and net assignable square feet. Data presented in the latter sections relate to the scheduled occupancy of the facilities, such as instructional classrooms and laboratories, and the utilization of allocated facilities (offices, research areas, libraries, physical education, residence halls). (FS)

Oregon State System of Higher Education

A Survey on the Use of Space

March 1969

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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Oregon State System of Higher Education

A Survey on the Use of Space

Land and Buildings •
Classrooms •
Teaching Laboratories •
Offices •
Libraries •
Residence Halls •
Married Student Housing •

March 1969

Office of Facilities Planning
Oregon State System of Higher Education
P.O. Box 3175 Eugene, Oregon 97403

FOREWORD

The Fall Term 1968 Survey on the Use of Space for the Oregon State System of Higher Education includes data concerning each of the nine institutions governed by the Oregon State Board of Higher Education. Selected information applicable to the state-wide Division of Continuing Education is also included. Special acknowledgment and appreciation is expressed to the following institutional research personnel and/or space analysts who assisted in obtaining and assembling the material for the study:

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The data on scheduled occupancy of classrooms and laboratories were assembled from the Registrars' schedules of classes which were prepared prior to the Fall Term 1968 and which were updated to the fourth week of classes to be compatible with the student registration data which were secured from the registration processes at that point of time. With the exception of two of the institutions (the University of Oregon Dental School and Medical School), these data were processed on a computer in the Comptroller's office on the Oregon State University campus and at the University of Oregon Statistical Laboratory in Eugene. A manual system of cross coding computations was used in preparing the utilization reports for both the Dental and Medical Schools.

TABLE OF CONTENTS

	<u>Page</u>
FOREWORD	ii
LISTING OF TABLES	iv
LISTING OF FIGURES	vii
PRINCIPAL CONCLUSIONS RELATIVE TO THE SURVEY	1
BACKGROUND	4
A Cautionary Note, 4	
Scope of the Survey, 6	
Procedures of the Survey on the Use of Space, 7	
Automated System Flow Chart, 9	
Definition of Terms, 10	
SECTION I - LAND AND BUILDINGS	12
SECTION II - SCHEDULED OCCUPANCY OF CLASSROOMS AND LABORATORIES	43
Classrooms, 44	
Laboratories, 58	
SECTION III - OFFICE UTILIZATION	74
SECTION IV - LIBRARIES	79
SECTION V - USE OF OTHER SPACE	90
Research Space, 91	
Indoor Physical Education Area, 93	
Student Union Space, 95	
SECTION VI - RESIDENCE HALLS AND MARRIED STUDENT HOUSING	97
Residence Halls, 98	
Married Student Housing, 106	
APPENDIX - SUMMARIES OF CLASSROOMS AND LABORATORIES SPACE UTILIZATION OBJECTIVES	

LISTING OF TABLES

<u>TABLE</u>		<u>PAGE</u>
I	AREA WITHIN APPROVED CAMPUS BOUNDARIES (OR WITHIN AREA OF DEVELOPMENT OF PORTLAND STATE UNIVERSITY)	13
II	GROSS SQUARE FOOT AREA OF BUILDINGS AS OF DECEMBER 31, 1968	15
III	AGE OF BUILDINGS	17
IV	AGE OF BUILDINGS WITHIN EDUCATIONAL AND GENERAL PLANT AS OF DECEMBER 31, 1968	19
V	COMPARISON OF INCREASE IN ENROLLMENT AND INCREASE IN SPACE WITHIN THE EDUCATIONAL AND GENERAL PLANT FROM 1931 TO 1968	21
VI	AGE OF BUILDINGS - AUXILIARY ENTERPRISES	23
VII	DISTRIBUTION OF ASSIGNABLE AREAS BY PRINCIPAL USE WITHIN NON-RESIDENTIAL FACILITIES AT SEVEN INSTITUTIONS - FALL TERM 1968 (TOTAL ASSIGNABLE AREA)	27
VIII	DISTRIBUTION OF ASSIGNABLE AREAS BY PRINCIPAL USE WITHIN NON-RESIDENTIAL FACILITIES AT SEVEN INSTITUTIONS - FALL TERM 1968 (PERCENT- AGE OF TOTAL ASSIGNABLE AREA - BY PRINCIPAL USE)	29
IX	DISTRIBUTION OF ASSIGNABLE AREAS BY PRINCIPAL USE WITHIN NON-RESIDENTIAL FACILITIES AT SEVEN INSTITUTIONS - FALL TERM 1968 (AVERAGE ASSIGNABLE AREA PER FTE STUDENT)	31
X	DISTRIBUTION OF ASSIGNABLE AREAS BY PRINCIPAL USE WITHIN NON-RESIDENTIAL FACILITIES AT THE UNIVERSITY OF OREGON DENTAL AND MEDICAL SCHOOLS - FALL TERM 1968	33
XI	DISTRIBUTION OF NET ASSIGNABLE SQUARE FEET OF SPACE ALLOCATED BY ORGANIZATION UNIT AS OF DECEMBER 31, 1968	37
XII	DISTRIBUTION OF NET ASSIGNABLE SQUARE FEET BY TYPE OF SPACE AS OF DECEMBER 31, 1968	41
XIII	SUMMARY OF CLASSROOM STUDENT STATION DATA - FALL TERM 1968	44

<u>TABLE</u>		<u>PAGE</u>
XIV	DATA ON CLASSROOM UTILIZATION	46
XV	DATA ON CLASSROOM STUDENT STATION UTILIZATION	52
XVI	SUMMARY OF LABORATORY STUDENT STATION DATA - FALL TERM 1968	58
XVII	DATA ON LABORATORY UTILIZATION	60
XVIII	DATA ON LABORATORY STUDENT STATION UTILIZATION	66
XIX	CAPACITY/ENROLLMENT RATIO - FALL TERM 1968	72
XX	SUMMARY OF TOTAL OFFICE SPACES, INCLUDING CONFERENCE ROOMS, RECEPTION, WAITING, FILES, AND STORAGE AREAS - FALL TERM 1968	75
XXI	SUMMARY OF OFFICE SPACE - FALL TERM 1968	77
XXII	TOTAL LIBRARY SPACE - FALL TERM 1968	82
XXIII	SUMMARY OF LIBRARY VOLUMES HELD - FALL TERM 1968	84
XXIV	SUMMARY OF LIBRARY SERVICE AND ADMINISTRATION AREA - FALL TERM 1968	86
XXV	SUMMARY OF LIBRARY READING AND STUDY SPACE - FALL TERM 1968	88
XXVI	SUMMARY OF RESEARCH SPACE	91
XXVII	SUMMARY OF INDOOR PHYSICAL EDUCATION AREAS	93
XXVIII	SUMMARY OF STUDENT UNION SPACE - FALL TERM 1968	95
XXIX	COMPARISON OF RESIDENCE HALL CAPACITIES AND OCCUPANCIES AT CLOSE OF SECOND WEEK OF CLASSES DURING FALL TERM 1968	98
XXX	SUMMARY OF RESIDENCE HALL AREA - FALL TERM 1968	100
XXXI	ANALYSIS OF SLEEPING-STUDY ROOMS IN RESIDENCE HALLS - FALL TERM 1968	102
XXXII	ANALYSIS OF RATED CAPACITIES AND OCCUPANCIES OF STUDENT RESIDENCE HALLS - FALL TERM 1968	104

<u>TABLE</u>		<u>PAGE</u>
XXXIII	ANALYSIS OF MARRIED STUDENT ENROLLMENTS AND RENTAL RATES FOR INSTITUTIONAL HOUSING UNITS	108
XXXIV	ANALYSIS OF OCCUPANCY OF INSTITUTIONALLY- OWNED FAMILY HOUSING UNITS CONSTRUCTED OR ACQUIRED SPECIFICALLY TO ACCOMMODATE MARRIED STUDENTS	110
XXXV	ANALYSIS OF OCCUPANCY OF INSTITUTIONALLY- OWNED MISCELLANEOUS FAMILY HOUSING RENTAL UNITS	112
XXXVI	ANALYSIS OF MALE AND FEMALE STUDENT ENROLL- MENTS AND MARRIED STUDENT HOUSING	114
XXXVII	COMPARISON OF MARRIED MALE STUDENT ENROLL- MENTS - FALL TERMS 1966, 1967 AND 1968	116
XXXVIII	SUMMARY ANALYSIS OF FAMILY HOUSING - OSU,UO	118
	SUMMARY ANALYSIS OF FAMILY HOUSING - OCE,SOC,EOC	120
XXXIX	SUMMARY ANALYSIS OF TEMPORARY HOUSING FOR SINGLE STUDENTS - FALL TERM 1968	122

LISTING OF FIGURES

<u>FIGURE</u>		<u>PAGE</u>
1	PERCENTAGE OF GROSS SQUARE FOOT AREAS WITHIN EDUCATIONAL AND GENERAL PLANT AVAILABLE IN FALL TERM 1968 ANALYZED BY PERIOD OF CONSTRUCTION OR ACQUISITION	19
2	PERCENTAGE OF GROSS SQUARE FOOT AREAS OF AUXILIARY ENTERPRISES AVAILABLE IN FALL TERM 1968 ANALYZED BY PERIOD OF CONSTRUCTION OR ACQUISITION	23
3	OSSHE-SEVEN INSTITUTIONS - CLASSROOM AVERAGE HOURS OF SCHEDULED OCCUPANCY PER WEEK - FALL TERM 1968	48
4	OSSHE-SEVEN INSTITUTIONS - CLASSROOM STUDENT HOURS OF SCHEDULED OCCUPANCY PER WEEK - FALL TERMS 1959 TO 1968	50
5	OSSHE-SEVEN INSTITUTIONS - CLASSROOM STUDENT STATIONS AVERAGE HOURS OF SCHEDULED OCCUPANCY PER WEEK - FALL TERM 1968	54
6	OSSHE-SEVEN INSTITUTIONS - CLASSROOM STUDENT STATIONS AVERAGE HOURS OF SCHEDULED OCCUPANCY PER WEEK - FALL TERMS 1959 TO 1968	56
7	OSSHE-SEVEN INSTITUTIONS - LABORATORIES AVERAGE HOURS OF SCHEDULED OCCUPANCY PER WEEK - FALL TERM 1968	62
8	OSSHE-SEVEN INSTITUTIONS - LABORATORIES AVERAGE HOURS OF SCHEDULED OCCUPANCY PER WEEK - FALL TERMS 1959 TO 1968	64
9	OSSHE-SEVEN INSTITUTIONS - LABORATORY STUDENT STATIONS AVERAGE HOURS OF SCHEDULED OCCUPANCY PER WEEK - FALL TERM 1968	68
10	OSSHE-SEVEN INSTITUTIONS - LABORATORY STUDENT STATIONS AVERAGE HOURS OF SCHEDULED OCCUPANCY PER WEEK - FALL TERMS 1959 TO 1968	70

SUMMARY AND BACKGROUND

PRINCIPAL CONCLUSIONS RELATIVE TO THE SURVEY

Available Space

1. The Oregon State System of Higher Education is utilizing more than 12,000,000 gross square feet of building space. About two-thirds of the space (8,021,599 sq. ft.) comprises the educational and general plant. (See Table II.)
2. About one-fifth of the total gross area of building space was acquired or constructed prior to 1930. About one-fourth of the area of the University of Oregon buildings and one-third of the area of Oregon State University buildings fall in this same age bracket. (See Table III.)
3. About one-fourth of the gross square foot area within the educational and general plant space either was constructed or acquired prior to 1930. (See Table IV.)
4. The rate of increase in facilities for the educational and general plant has not kept pace with the percent of enrollment growth. Since Fall Term 1961, student enrollments have increased 77.2 percent but permanent additions to the educational and general plant have increased only 46.3 percent. (See Table V.)
5. Since 1931, enrollments have increased more than six-fold, but the increase of space for the educational and general plant has not quite tripled. (See Table V.)
6. About four-fifths of the auxiliary enterprises space is less than 30 years of age. (See Table VI.)
7. Between 1951 and 1966, when enrollments almost tripled, auxiliary enterprise space was being increased less than one and one-half times. (See Table VI.)

Space by Type, Principal Use, and Organizational Unit

1. About one-half of the net assignable square foot area of non-residential facilities at the seven institutions of the State System (exclusive of the Dental and Medical Schools) is assigned to instruction including physical education. (See Table VIII.)
2. Of all space devoted to research, which amounts to approximately ten percent of the nonresidential space at the seven institutions of the State System (exclusive of the Dental and Medical Schools), about 95 percent is at Oregon State University and the University of Oregon. (See Tables VII and VIII.)

3. The average NASF (Net Assignable Square Feet) of nonresidential space for these seven institutions of the State System is 103.1. National planning figures suggest a minimum of 120 NASF. (See Table IX.)

4. About one-fourth of the NASF at the University of Oregon Medical School is devoted to research. (See Table X.)

5. Less than one-half (45.22%) of the space available in the State System is devoted to instruction and research. (See Table XI.)

6. Living-learning areas, which are a combination of classrooms, laboratories, offices, study and residential spaces, make up about three-fifths of the NASF available to the State System. (See Table XII.)

Classrooms

1. In the seven institutions in the State System, exclusive of the Dental and Medical Schools, the average area allotted for each classroom student station is 13.8 square feet, nearly ten percent below the national norm of 15 square feet. (See Table XIII.)

2. Only one-half of the student FTE enrollment could be accommodated in the classrooms at any one time. (See Summary I, Line IIe, Appendix A.)

3. Classrooms at these seven institutions in the State System are scheduled for occupancy an average of 35.2 hours per week. (See Table XIV.)

4. All of the seven institutions have exceeded the Board's minimum objective of 30 hours per week of scheduled occupancy. Most of them have exceeded the Board's planning objective of 33 hours of scheduled occupancy per week which is used in formulating capital outlay requests for legislative approval. (See Table XIV and Figure 3.)

5. For the seven institutions, average hours of scheduled occupancy of classrooms have increased from 23.3 hours in Fall Term 1959 to 35.2 hours in Fall Term 1968. (See Figure 4.)

6. The Board's minimum objective of 18 average hours of scheduled occupancy of classroom student stations is exceeded by all seven institutions. Considering all hours, the System averages 130% (23.4 hours) of this objective. (See Figure 5.)

7. When DCE hours are excluded, the average hours for scheduled occupancy of classroom student stations at the seven institutions have doubled since Fall Term 1959. (See Figure 6.)

Laboratories

1. At the seven institutions of the State System, the average area allotted for each laboratory student station is 48.8 square feet.

2. Only one-fourth of the student FTE enrollment could be accommodated in all laboratories at one time. (See Summary I, Line IIIe, Appendix A.)

3. Scheduled occupancy of instructional laboratories averaged 20.3 hours per week during Fall Term 1968, right above the Board's minimum objective of 20 hours. (See Table XVII and Figure 7.)

4. The Board's minimum objective has been exceeded by the State System each year since Fall Term 1963. (See Figure 8.)

5. Most of the institutions are exceeding the Board's minimum objective of 16 hours of scheduled occupancy in laboratory student stations. (See Figure 9.)

6. In the last four Fall Term Studies, the Board's minimum objective of 16.0 hours either has been equaled or exceeded. (See Figure 10.)

BACKGROUND

A Cautionary Note

For over fifteen years, since the advent of the Russell-Doi Studies¹ and other studies developed by California, Illinois, Purdue and Michigan State, colleges and universities, with proddings from legislators, have concentrated much effort on preparing space utilization reports. The measurements of space utilization (usually limited to scheduled occupancy of classrooms and teaching laboratories) have been widely used by the state agencies to evaluate needs for new facilities and in some instances to help determine the allocation of funds. Agencies similar to that of the Oregon Educational Coordinating Council use space utilization data in terms of average room hours per week in classrooms and laboratories as one of their criteria in assessing priorities.

A criterion of space utilization, expressed as the "capacity/enrollment ratio," is now required under Title I of the Higher Education Facilities Act of 1963 as one of several standards for determining priorities among projects eligible for federal grant assistance.

The emphasis on classroom and/or laboratory utilization is understandable. Scheduled facilities invite the use of quantitative measures and statistical summaries. However, offices, libraries, research laboratories and other spaces which generally are not scheduled do not lend themselves easily to utilization percentages.

One of the more unfortunate aspects of the present over-emphasis on the utilization of physical facilities is the confusion which results when utilization data are interpreted (usually misinterpreted). In many cases, efforts are made to compare utilization data reported by institutions which are vastly different in terms of educational program and purpose. It is also common to find attempted comparisons between data which are based upon different units of measurement. For example, one institution may be publishing data concerning only classrooms and laboratories within the central core of the campus while another institution may be analyzing all classrooms and laboratories within the approved campus boundaries.

¹ Russell, J. D. and Doi, J. I., Manual for Studies of Space Utilization in Colleges and Universities, American Association of Collegiate Registrars and Admissions Officers, Ohio University, Athens, Ohio, 1957

If an institution reports that its classrooms are used 50 percent of the available hours, there is a strong tendency to interpret this statement to mean either that the institution is not efficient or that it could take twice as many students as it now has. A complete knowledge of the complexity of the institutions' physical plant and educational program would preclude such impulsive judgments. At any point in time, an institution's capacity to admit additional students may be limited by any one of a number of factors. It may not have the residence halls required to house the students. It may not have sufficient faculty or the offices in which to put them. It may not have the operating dollars to assume the instructional cost of students or it may not have sufficient library facilities to accommodate expansion. It is not realistic to judge the capacity of an educational institution by its classroom capacity alone. This is substituting the part for the whole.

A specific methodology of space utilization measurement of instructional classrooms and laboratories is categorized as:

1. The hours per week instructional spaces are regularly scheduled; and
2. The percent of student stations occupied when the classroom or laboratory is scheduled for use, sometimes called the "fullness ratio."

There are many reasons why in actual practice room utilization rates and the "fullness ratio" tend to be lower than might seem reasonable. Some of the following factors may tend to lower room utilization rates:

1. Specialized curricula;
2. Room use which is not regularly scheduled, such as for meetings, conferences, examinations, student study (in classrooms) and individual laboratory work (in teaching laboratories), as well as non-scheduled seminars;
3. Time needed for maintenance and repair;
4. Set-up time for experiments and other blocked time;
5. Complicated curriculum patterns; and
6. Need for flexibility. (In matching student scheduled curriculum patterns, professors' teaching schedules, differing course credit patterns and different patterns for each day of the week, a much higher rate of scheduled occupancy than is being attained in the State System is extremely difficult.)

Some of the following factors may tend to lower the "fullness ratio" of rooms in use:

1. Extra seats needed for auditors, quiz section instructors and others not reflected in enrollment statistics;
2. The space efficiency of larger rooms; and
3. The difficulty of rapidly modifying the classroom sizes and supply to meet changing conditions.

The intent here is not to argue against studies of classroom utilization, but to put such data in their proper perspective. Primarily, classroom utilization studies should be used for internal information and planning. Low rates of utilization may suggest either or both of the following courses of action: (1) the institution may plan to build other than classroom facilities to accommodate additional students, thus increasing the classroom use; (2) it may decide to convert more classrooms to other functions (offices, research laboratories, etc.).

Perhaps the problem could be solved if it were possible to attach utilization rates to other-than-classroom and laboratory areas. Tradition and realism mitigate against the possibility. Faculty offices are not susceptible to scheduling. Once a space has been assigned to a research project, a second set of apparatus cannot be piled on top. It is desirable that the student health center be more vacant than full. It is desirable to have the library fully occupied but other activities such as attending class, eating meals, and extra curricular activities lessen the probability.

If, as seems apparent, the concept of rate of utilization must be limited to classrooms and teaching laboratories, then it is important that these classroom utilization figures be carefully interpreted. The quest for improved classroom efficiency leads down the path of institutional objectives, courses of study, admissions procedures, operating budgets, faculty resources, admissions standards, and a host of other concerns both philosophical and practical.

Scope of Survey

The Survey on the Use of Space contains data relating to the scheduled occupancy of instructional classrooms and laboratories during the fourth week of the 1968 Fall Term; data relating to the utilization of offices and research spaces during the week of October 21-25, 1968; residence hall occupancies as of the second week of Fall Term 1968; and inventory data pertaining to all space within the area of development of Portland State University or within the campus boundaries of other institutions under the control of the State Board of Higher Education, as of December 31, 1968.

The data presented in the first section of the report relate to space available in terms of gross areas and net assignable square feet (generally referred to as NASF). The net assignable areas will be analyzed further in terms of type of space, function and organizational unit.

The data presented in the latter sections of the report relate to the scheduled occupancy of the scheduled facilities, such as instructional classrooms and laboratories, and the utilization of allocated facilities (offices, research areas, libraries, physical education, residence halls, etc.). The analyses for scheduled spaces will relate to average hours of scheduled occupancy per week, percent of station occupancy, etc. The analyses for allocated spaces will relate to space available to full-time equivalent staff and students being served.

Procedures of the Survey on the Use of Space

Many methods of gathering inventory data have been used in the past by the institutions within the State System. These have progressed from reports prepared by the Comptroller's office in terms of gross area of buildings to the more sophisticated methods of the multi-dimensional matrix types used today. For the sake of coordination and consistency, manuals have been prepared to be used as a working guide for personnel in the institutions charged with the responsibility of making a physical inventory at their institution. Each institution has a staff member with a responsibility of maintaining the space inventory data on a continuing basis. Records are available on all buildings except off-campus branch experiment stations and units under construction. The inventory is a room by room tabulation of all usable and non-usable space in a given building itemizing the area, room type, department or organizational unit assignment and function or use.

Each year, as of December 31, the Annual Physical Facilities Inventory Report, is prepared in duplicate. The report consists of the following elements:

1. Listing by building and summary;
2. Listing by type of space--for example, classroom, laboratory, office, study, etc.;
3. Listing by principal use with summaries by (a) institution, (b) buildings--for example, instruction, research, etc.;
4. Listing by department occupying or organizational unit--for example, departments of instruction and research, library, public service, organized activities, etc.

Once the rooms and assignable square feet of floor space available for classrooms, teaching laboratories, etc., for each building at a given institution have been established, a space use report is necessary to determine how certain allocated facilities (offices, research space, etc.) are being utilized and the extent to which classrooms and teaching laboratories are scheduled for occupancy. Results of such studies will appear in a later section.

On the following page, a chart depicts the flow of data through the utilization and facilities inventory processing cycles.

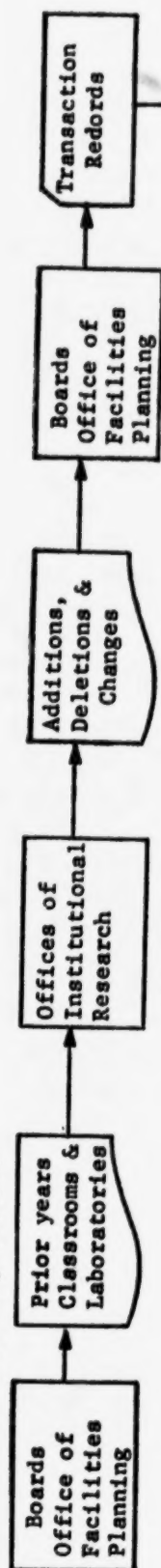
The classroom and laboratory utilization process retrieves data from three data bases--the Classroom and Laboratory Control, the Master Scheduling and the Student Registration. The process begins with the extraction of elements of the Master Scheduling at each of the institutions. These data are processed onto a Master Utilization tape. During the registration process, summary data are extracted from each institution's system in terms of total students by course, by section, by level of students and credit hours generated. The registration data are then merged with the scheduling data and unmatched elements from both data bases are resolved.

The Classroom and Laboratory Control contains elements relating to the building, room number, optimum station, area of the instructional space and a code to identify it either as a classroom or a laboratory. These elements are then entered on the Master Utilization tape for each record affected. From the updated and completed Master Utilization tape, preliminary utilization reports are prepared and referred to the institutions for review, corrections and/or approval. Items for correction are used to update the Master Utilization tape and final scheduled occupancy reports are prepared.

At present, the Facilities Inventory system does not enter directly into the Utilization Process. However, the next priority is to establish this link in the overall processing cycle, which will lead directly into the realm of projection reports. This could be used to forecast the need for added classrooms and/or laboratories based on the present facilities available, the degree of scheduled occupancy of these facilities and future needs based on enrollment projections of future student populations.

OREGON STATE BOARD OF HIGHER EDUCATION
Automated System for the
Classroom and Laboratory Utilization Process

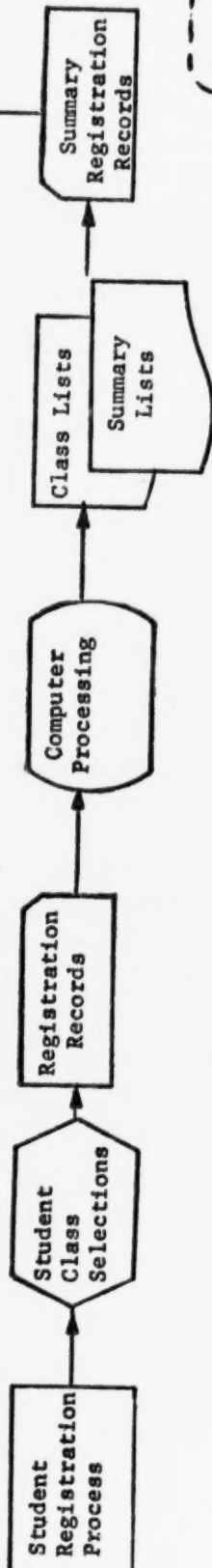
Classroom & Laboratory Control



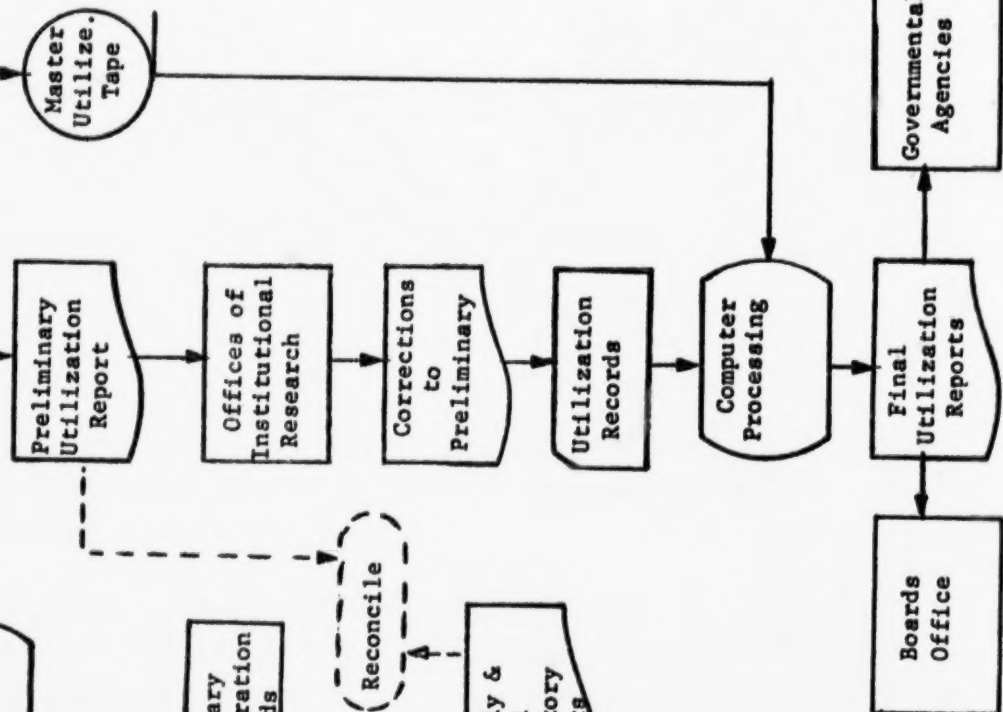
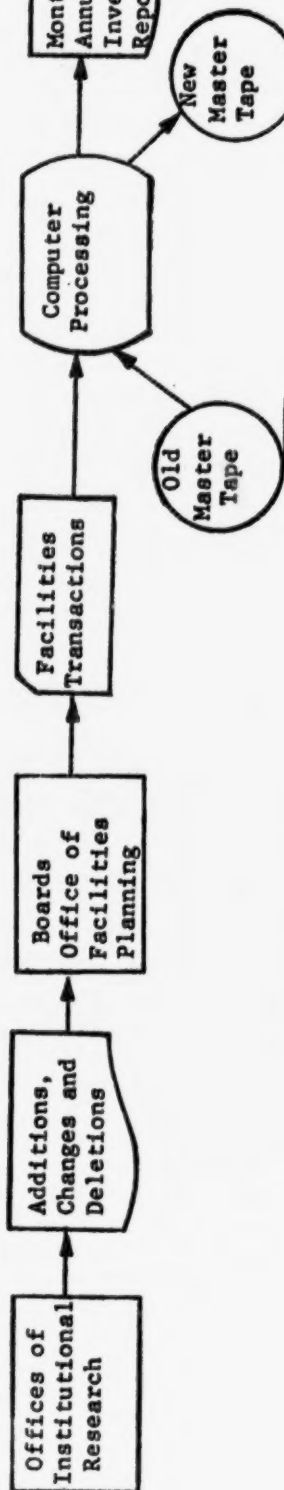
Scheduling



Registration



Facilities Inventory



Definition of Terms

Terms used in the Survey on the Use of Space are defined below:

Gross Area - The gross floor area is the sum of the areas within the principal outside faces of the exterior walls at each floor level neglecting architectural setbacks and projections.

Nonusable Area - Nonusable area includes all exterior wall areas, interior partitions, pipe spaces and chases, vertical plenums, dead spaces, etc.

Net Usable Area - The net usable area is the square foot area in the interior of a building, excluding structural elements such as walls, columns, shafts, partitions, etc., based upon measurements taken at or near floor level. The net usable area of a space or building is the sum of all measurable floor areas with a headroom of 6'6" or more.

Nonassignable Area - Nonassignable area includes stairs, halls, elevators, toilet rooms, janitor rooms, mechanical rooms, etc.

Net Assignable Area - Net assignable area is the floor area of a room, floor or building, assignable to an operating department (exclusive of physical plant maintenance and building operation space). The net assignable area of a room is measured from the inside walls at or near the floor level.

Mean - The quotient obtained by dividing the sum of the responses received on a given item by the number of institutions reporting some quantity other than 0 for that particular item. The "Mean Value" is used to give an average of a certain group of institutions and serves to give each institution equal weight.

Weighted Mean - The sum of a column of figures divided by a sum of another column of figures. The weighted mean value is used to show the effect of a group of institutions as an entity. The weighted mean takes into account not merely the number of units to be averaged but also makes allowance for the value of each unit.

Hour of Scheduled Occupancy - The unit of continuous time devoted to instruction of a section, generally approximated at one hour. For the purpose of this study, a 50-minute class period was used.

Total Hours of Scheduled Occupancy - The total number of room periods that a room is occupied by scheduled classes during the week regardless of class size.

Student Station Hour - One period of organized instruction involving one student. Total student hours for a section are the product of the number of students in that section and the weekly room periods of instruction for that period.

Station - The facilities required to accommodate one person at a time. In a classroom, one chair or seat would constitute a student station. In a laboratory, a station may consist of a clearly defined area of laboratory worktable or a specific combination of worktable area and equipment. In some shop-type laboratories and research facilities, the number of persons that can be accommodated in the room at any one time may need to be estimated in order to establish the number of stations for the room. For a laboratory composed of a suite of rooms, the number of stations is based on the total number of persons that can be accommodated in the several rooms at one time, and the station count is attributed to the total area of the suite. In an office, one station may be comprised of a desk, a chair and various other office equipment.

Average Hours of Scheduled Occupancy - The average hours of scheduled occupancy for a given space category is obtained by dividing the total number of rooms (or stations) into the total hours of scheduled occupancy.

Other definitions relating to type of space, organizational unit, function or use code, etc., will be noted just preceding the analyses of those categories.

SECTION I

LAND AND BUILDINGS

Campus planning requires a knowledge of space--the space confined within the buildings and the space that flows around, over, and under buildings. Section I of this Survey will analyze land and buildings at the institutions within the Oregon State System of Higher Education.

Buildings will be analyzed by major classification (as either educational and general plant or auxiliary enterprises), by age, and by the functional distribution of net assignable square feet (NASF). Since practically all buildings contain different types of spaces and are used for more than one purpose, it is necessary to have a room by room inventory in order to facilitate planning.

TABLE I
 AREA WITHIN APPROVED CAMPUS BOUNDARIES
 (OR WITHIN AREA OF DEVELOPMENT OF PORTLAND STATE UNIVERSITY)

<u>Institution</u>	<u>Total Acreage</u>
Eastern Oregon College, La Grande	104.54
Oregon College of Education, Monmouth	102.5547
Oregon State University, Corvallis	437.278*
Southern Oregon College, Ashland	157.8833
University of Oregon, Eugene	284.56
University of Oregon Medical School and University of Oregon Dental School, Portland	104.24
Portland State University, Portland	29.75
Oregon Technical Institute (New Campus), Klamath Falls	<u>158.00</u>
Total	<u><u>1,378.8060</u></u>

* Excludes areas of 395 acres in West Campus assigned to Agricultural Research.

The State Board of Higher Education has defined campus boundaries or the area of development for each of the institutions within the State System. Although most of the properties within these boundaries is owned by the State, there are substantial amounts of property yet to be acquired for the ultimate development of the colleges and universities.

Table I summarizes the land area within the campus boundaries according to institution. Of the 1,378.8060 acres of land, the range in the number of acres for each institution varies from 29.75 at Portland State University (an urban university) to 437.278 acres at Oregon State University (a land grant institution).

TABLE II

GROSS SQUARE FOOT AREA OF BUILDINGS
AS OF DECEMBER 31, 1968

<u>Institution</u>	<u>Educational and General Plant</u>	<u>Auxiliary Enterprises</u>	<u>Total</u>
Eastern Oregon College	220,757	181,961	402,718
Oregon College of Education	318,246	262,136	580,382
Oregon State University	3,005,684	1,728,237	4,733,921
Southern Oregon College	396,851	423,197	820,048
University of Oregon	1,798,144	1,506,604	3,304,748
Portland State University	<u>953,203</u>	<u>463,628</u>	<u>1,416,831</u>
Subtotal	6,692,885	4,565,763	11,258,648
Oregon Technical Institute	284,744	119,407	404,151
University of Oregon Dental School	149,955	6,548	156,503
University of Oregon Medical School	<u>894,015</u>	<u>245,049</u>	<u>1,139,064</u>
Total	<u>8,021,599*</u>	<u>4,936,767</u>	<u>12,958,366</u>

* Excludes 52,452 gross square feet for the Division of Continuing Education, consisting principally of the office building at 1633 S. W. Park Avenue, Portland, and facilities for KOAC and KOAP-TV.

The procedures followed in conducting the physical facilities inventory were explained briefly in the previous section. Results of the Annual Report are illustrated in Table II and indicate that as of December 31, 1968, the nine institutions within the Oregon State System of Higher Education were utilizing over eight million gross square feet of floor area assigned as the educational and general plant. This figure includes area assigned as classrooms, teaching and research laboratories, libraries, gymnasiums, hospitals and clinics, offices, agricultural research space, heating plants, etc.

In addition, the various units of the State System were occupying nearly five million gross square feet of space assigned as auxiliary enterprises (e.g., student centers, residence halls, cafeterias, athletic facilities, student health centers, etc.).

TABLE III
AGE OF BUILDINGS

Insti- tution	-1930			1931-1940			1941-1950			1951-1960			1961-			Total		
	No. of Bldgs.*	Gross Area	%	No. of Bldgs.*	Gross Area	%	No. of Bldgs.*	Gross Area	%	No. of Bldgs.*	Gross Area	%	No. of Bldgs.*	Gross Area	%	No. of Bldgs.*	Gross Area	%
EOC	1	43,820	10.9	3	123,510	30.7	5	92,685	23.0	6	100,320	24.9	2	42,383	10.5	17	402,718	100.0
OCE	6	115,398	19.9	2	69,200	11.9	5	46,526	8.0	8	130,654	22.5	10	218,604	37.7	31	580,382	100.0
OSU	41	1,545,257	32.7	6	123,318	2.6	34	881,821	18.6	62	1,165,925	24.6	34	1,017,600	21.5	177	4,733,921	100.0
SOC	0	0	0.0	2	87,020	10.6	5	96,166	11.7	7	134,610	16.4	15	502,252	61.3	29	820,048	100.0
UO	23	786,833	23.8	4	293,806	8.9	27	727,460	22.0	20	368,096	11.1	33	1,128,553	34.2	107	3,304,748	100.0
FSU	0	0	0.0	0	0	0.0	1	135,052	9.5	4	339,288	24.0	13	942,491	66.5	18	1,416,831	100.0
Sub- total	71	2,491,308	22.1	17	696,854	6.2	77	1,979,710	17.6	102	2,238,893	19.9	107	3,851,883	34.2	379	11,258,648	100.0
OTI	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	14	404,151	100.0	14	404,151	100.0
UODS	0	0	0.0	0	0	0.0	0	0	0.0	4	156,503	100.0	0	0	0.0	4	156,503	100.0
UOMS	1	107,215	9.4	3	194,251	17.1	5	82,394	7.2	9	312,773	27.5	19#	442,431	38.8	37	1,139,064	100.0
Total	72	2,598,523	20.0	20	891,105	6.9	82	2,062,104	15.9	120	2,703,169	20.9	140	4,698,465	36.3	434	12,958,366	100.0

* Includes permanent buildings and temporary buildings or houses and additions to existing buildings.

Includes the animal farm.

In order to analyze the gross area of facilities available in the State System according to approximate time of construction or acquisition, Table III was developed. The sources of data were the Building Valuation Schedule published by the Comptroller's office, and the Building Space Inventory, dated December 31, 1968. It is probable that the analysis contains some minor errors because of the various adjustments for remodeling, conversions from one type of use to another, and possibly also from the questionable accuracy of early records. However, the data are believed to be reasonably adequate to reflect the volume of activity during each of the time periods indicated.

Table III indicates that of the 12,958,366 gross square feet for educational and general plant and auxiliary enterprises buildings, 36.3% was constructed or acquired since 1961; 20.9% between 1951 and 1960; 15.9% between 1941 and 1950; 6.9% between 1931 and 1940; and 20.0% prior to 1930.

Of the 379 buildings listed for six institutions, 71 (or about 19%) fall in the category of about 40 years of age or older. The University of Oregon and Oregon State University have the greatest proportion of old space, with 23.8% and 32.7%, respectively, of their total gross area being about 40 years of age or older.

TABLE IV

AGE OF BUILDINGS WITHIN
EDUCATIONAL AND GENERAL PLANT
AS OF DECEMBER 31, 1968

<u>Years</u>	<u>No. of Buildings</u>	<u>Gross Sq. Ft. Area</u>	<u>% of Total Avail- able in Fall 1968</u>	<u>Cumulative</u>	
				<u>Gross Sq. Ft. Area</u>	<u>Percent</u>
-1910	15	408,389	5.1	408,389	5.1
1911-1920	22	1,003,054	12.5	1,411,443	17.6
1921-1930	28	637,568	7.9	2,049,011	25.5
1931-1940	17	744,984	9.3	2,793,995	34.8
1941-1950	70	1,162,562	14.5	3,956,557	49.3
1951-1960	84	1,525,512	19.0	5,482,069	68.3
1961-	<u>105</u>	<u>2,539,530</u>	<u>31.7</u>	8,021,599	100.0
Totals	<u>341</u>	<u>8,021,529</u>	<u>100.0</u>		

FIGURE 1

PERCENTAGE OF GROSS SQUARE FOOT AREAS WITHIN
EDUCATIONAL AND GENERAL PLANT AVAILABLE IN FALL TERM 1968
ANALYZED BY PERIOD OF CONSTRUCTION OR ACQUISITION

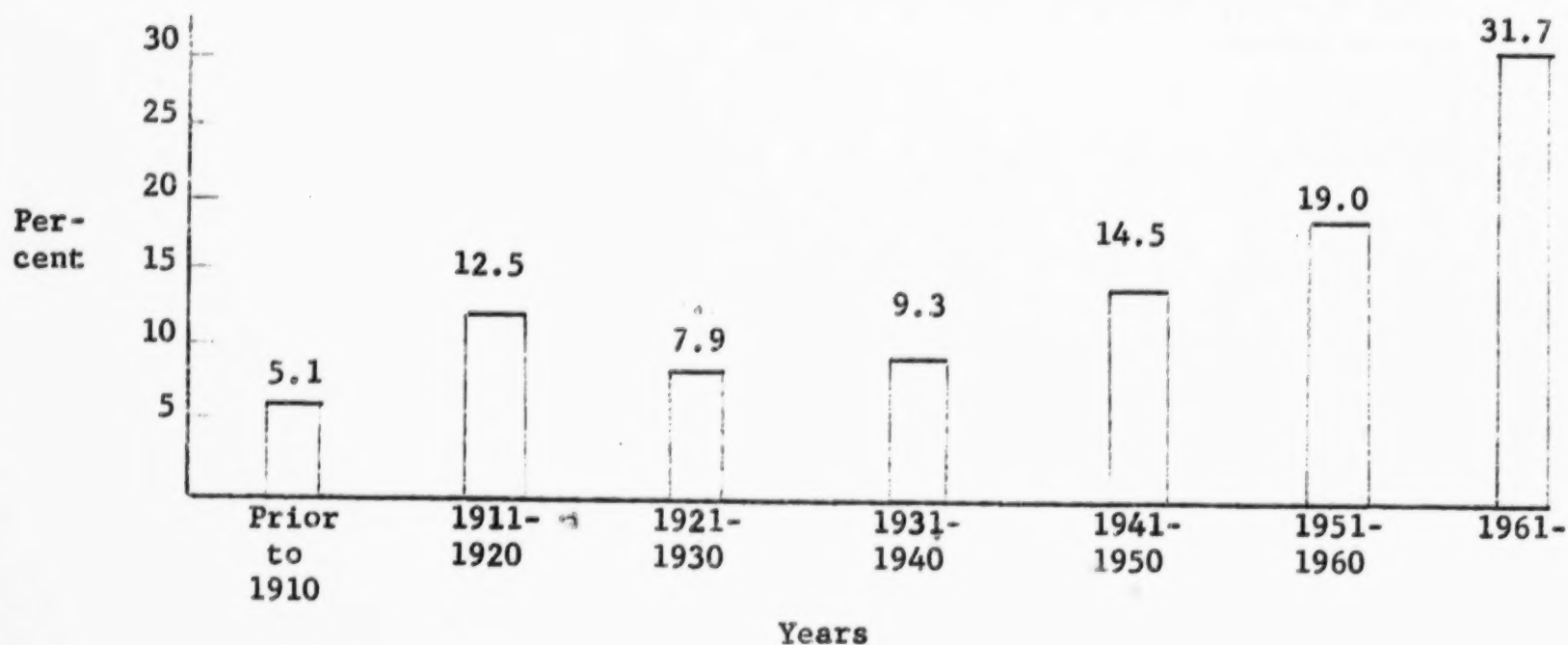


Table IV and Figure 1 indicate by time period groupings the approximate gross area of facilities which were made available for the Educational and General Plant at all units of the Oregon State System of Higher Education.

About 19% of the buildings and over 25% of the gross square feet available within the educational and general plant either were constructed or acquired prior to 1930.

TABLE V
COMPARISON OF INCREASE IN ENROLLMENT AND INCREASE IN SPACE WITHIN
THE EDUCATIONAL AND GENERAL PLANT FROM 1931 TO 1968

Year	Enrollment (Fall Term Headcount)			Area in Educational and General Plant		
	Total	Increase Over Prior Periods No. Students	%	Total Sq. Ft.	Increase Over Prior Periods Area Sq. Ft.	%
1931	7,302			2,049,011		
1941	9,111	1,809	23.2%	2,793,995	744,984	36.3%
1951	<u>13,575</u>	4,464	48.9	<u>3,956,577</u>	1,162,562	41.6
Total Increases since 1931	6,273		85.9	1,907,566		93.1
1961	<u>28,986</u>	15,411	113.5	<u>5,482,062</u>	1,525,512	38.6
Total Increases since 1931	21,684		296.9	3,433,051		167.5
1968	<u>51,375</u>	22,389	77.2	<u>8,021,599</u>	2,539,530	46.3
Total Increases since 1931	44,073		603.6	5,972,588		291.4

Table V indicates the relationship that exists between the increase in student enrollment and the increase in facilities available for educational and general plant purposes. Between 1931 and 1961, the rate of growth in enrollment was nearly twice as large as the percentage increase in the amount of space provided (296.9% versus 167.1%). During the period of 1951-1961, the increase in enrollment was 113.5%, but the area within the educational and general plant reflected an increase of only 38.6%.

Growth in enrollment between 1961 and 1968 was about 77.2%, whereas the increase in space was about 46.3%. Note that the increase in enrollment from 1931 to 1968 was approximately 603.6%, but the growth in educational and general plant space was only 291.1%.

Further analysis of data from Table V indicates that the increase in enrollment from 1951 to 1968 was about 278.5% (from 13,575 to 51,375 students), but the additional gross area was 4,065,022 square feet (8,021,599 minus 3,956,577), or an increase of 102.7%.

TABLE VI
AGE OF BUILDINGS
AUXILIARY ENTERPRISES

Years	No. of Buildings	Gross Sq. Ft. Area	% of Total Available in Fall 1968	Cumulative	
				Gross Sq. Ft. Area	Percent
-1910	1	7,434	0.2	7,434	0.2
1911-1920	2	41,867	0.8	49,301	1.0
1921-1930	5	500,211	10.1	549,512	11.1
1931-1940	3	146,121	3.0	695,633	14.1
1941-1950	13	899,542	18.2	1,595,175	32.3
1951-1960	36	1,182,657	24.0	2,777,832	56.3
1961-	<u>33</u>	<u>2,158,935</u>	<u>43.7</u>	4,936,767	100.0
Totals	<u>93</u>	<u>4,936,767</u>	<u>100.0</u>		

FIGURE 2

PERCENTAGE OF GROSS SQUARE FOOT AREAS OF AUXILIARY
ENTERPRISES AVAILABLE IN FALL TERM 1968 ANALYZED BY PERIOD
OF CONSTRUCTION OR ACQUISITION

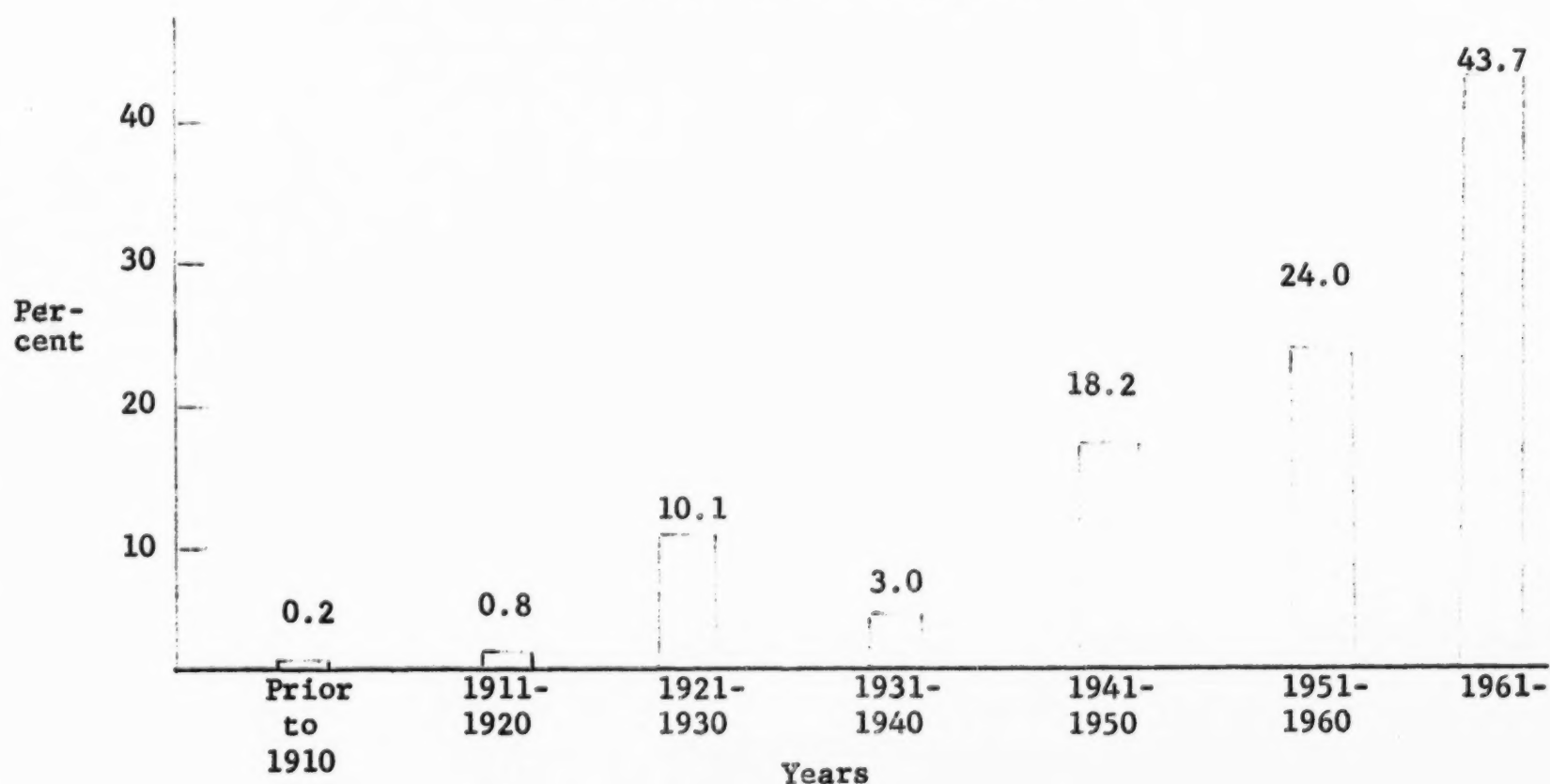


Table VI and Figure 2 indicate by time period groupings the approximate gross area of facilities which were made available for the Auxiliary Enterprises of all units of the Oregon State System of Higher Education. Much of this area is in the form of student housing.

Approximately 43.7% of the gross area of auxiliary enterprises buildings has either been acquired or constructed in the last ten years. Over 80% of such space is less than 30 years in age. About 10.1% of the buildings are in the 1921-1930 time period. The Memorial Union Building and Weatherford Hall at Oregon State University and McArthur Court and Straub Hall at the University of Oregon represent the principal area for the five buildings indicated. A number of the older buildings, which were originally used for residence halls, have been converted to educational and general plant use.

ANALYSIS OF NET ASSIGNABLE SQUARE FEET BY FUNCTION

Some currently used classification systems for facilities data only define "instructional" space as classrooms and other rooms used directly for organized-class instruction, and "research" space as only laboratory-research facilities. The inventory process used by the State System makes provision for the allocation of other areas such as offices and other non-laboratory facilities to the functions of instruction and research plus the provision for the allocation and quantification of public service facilities.

The Physical Facilities Inventory Manual used in the State System defines about forty different functions or use codes for identification. To report the data relating to the distribution of NASF of nonresidential space conveniently by function, the following classifications have been used:

INSTRUCTION: Any activity the primary objective of which is the transmission or dissemination of knowledge to college students on a group or individual basis, including that portion of graduate instruction involving organized classes for which credit is awarded.

This group includes instructional classrooms, laboratories, enclosed facilities for physical education and military science, faculty offices, and offices used for departmental administration.

RESEARCH: Any activity the primary objective of which is the discovery or application of knowledge, including the research activities engaged in by students as a part of their graduate training.

This group includes departmental research, federally sponsored research, and non-federally sponsored research.

GENERAL ADMINISTRATION AND INSTRUCTIONAL SERVICES: Any activity the primary objective of which is the orderly planning and operation of the instruction, research, and/or public service functions of an institution of higher education in terms of academic affairs, fiscal affairs, personnel, student affairs, public relations, development, etc.

This group includes all spaces used in the general administration of the institution, including student services under the Dean of Students, such as Counseling, Placement Bureau, Registrar and Admissions Office, etc.

LIBRARY: The orderly collection, storage and retrieval of knowledge. This activity may be housed in a central location or decentralized and housed in two or more separate facilities. In either case, those activities which are under the supervision and control of a "Director of Libraries" and are available for use by more than one department within an institution of higher education should be included in this category.

This group includes all libraries, museums, art galleries and audio-visual aid department spaces.

AUXILIARY SERVICES: Activities which characteristically are represented by the types of physical facilities classified by "Room Type" as "GENERAL-USE FACILITIES."

This group includes student activities, intercollegiate athletics, food services, book stores, health services, and student unions.

Non-institutional Agencies - This group includes federally sponsored instruction and other federally sponsored programs such as Peace Corps, VISTA, etc.

Other - This group includes physical plant, centralized services, public services, extension and miscellaneous.

An analysis of NASF has been prepared in Tables VII, VIII, and IX to compare the principal function or use of space within all non-residential facilities at seven of the institutions of the Oregon State System of Higher Education (EOC, OCE, OSU, SOC, UO, PSU, and OTI). Table X provides an analysis of NASF by principal function or use at the University of Oregon Dental School and the University of Oregon Medical School. The source of the data reflected in each of the tables was the December 31, 1968 physical facilities inventory, a copy of which is on file in the Facilities Planning office, updated to include the South Park Hall Addition at Portland State University.

The analyses are concerned only with net assignable square foot areas and, therefore, do not reflect areas used for corridors, stairs, mechanical equipment, thickness of walls and partitions, etc.

TABLE VII
DISTRIBUTION OF ASSIGNABLE AREAS BY PRINCIPAL USE WITHIN NON-RESIDENTIAL
FACILITIES AT SEVEN INSTITUTIONS - FALL TERM 1968

Insti- tution	Instruction (Including P. E.)	Research	Gen. Admin. & Instruc- tional Services	Other			Subtotal	Aux. Enter- prises, Health Serv., Student Union, Etc.	Non-Insti- tutional Agencies & Other	Total
				Libraries & Museums	Including Phys. Plant & Cent. Serv.	Including Phys. Plant & Cent. Serv.				
I. Total Assignable Area										
EOC	100,953	1,355	7,755	25,419	25,379	160,861	16,630	0	177,491	
OCE	133,427	9,865	11,782	32,679	23,089	210,842	32,684	4,949	248,475	
OSU	951,584	329,479	50,932	113,232	147,345	1,592,572	280,006	44,185	1,916,763*	
SOC	181,330	0	12,297	43,952	12,944	250,523	30,738	0	281,261	
UO	545,854	146,256	34,805	246,185	139,609	1,112,709	182,292	43,179	1,338,180	
PSU	363,477	13,892	21,868	115,369	45,402	560,008	100,968	2,705	663,681#	
OTI	164,186	276	4,967	7,949	19,998	197,376	8,072	173	205,621	
Totals	2,440,811	501,123	144,406	584,785	413,766	4,084,891	651,390	95,191	4,831,472	

* Excludes 432,122 sq. ft. of assignable area for Federal Cooperative Extension, Agricultural Experiment Stations, or Forestry Research Laboratory.

Excludes 306,403 sq. ft. of parking structure under auxiliary enterprise functions.

Table VII reflects the distribution of NASF (Net Assignable Square Feet) by principal use within the non-residential facilities at each institution. The total NASF for the seven institutions is 4,831,472 square feet. Institutional totals range from a low of 177,491 NASF at Eastern Oregon College to a high of 1,916,763 at Oregon State University.

The type of educational program at each institution has a direct relationship with the allocation of assignable space. As an example, the 329,479 square feet at Oregon State University and the 146,256 square feet at the University of Oregon devoted to research is substantially larger than at the other five institutions because of the nature of the graduate instruction and research programs at both universities.

Areas used by the staffs of the Division of Continuing Education and Centralized Activities for the Oregon State Board of Higher Education are included under the appropriate functional classifications at the host institutions.

TABLE VIII
DISTRIBUTION OF ASSIGNABLE AREAS BY PRINCIPAL USE WITHIN NON-RESIDENTIAL FACILITIES
AT SEVEN INSTITUTIONS - FALL TERM 1968

Insti- tution	Instruction (Including P. E.)	Gen. Admin. & Instruc- tional		Libraries & Museums	Other Including Phys. Plant & Cent. Serv.	Subtotal	Aux. Enter- prises, Health Serv., Student Union, Etc.	Non-Insti- tutional Agencies & Other	Total
		Research	Services						
II. Percentage of Total Assignable Area - By Principal Use									
EOC	56.9%	0.8%	4.3%	14.3%	14.3%	90.6%	9.4%	0.0%	100.0%
OCE	53.7	4.0	4.7	13.2	9.3	84.9	13.1	2.0	100.0
OSU	49.6	17.2	2.7	5.9	7.7	83.1	14.6	2.3	100.0
SOC	64.5	0.0	4.4	15.6	4.6	89.1	10.9	0.0	100.0
UO	40.9	10.9	2.6	18.4	10.4	83.2	13.6	3.2	100.0
PSU	54.8	2.1	3.3	17.4	6.8	84.4	15.2	0.4	100.0
OTI	79.9	0.1	2.4	3.9	9.7	96.0	3.9	0.1	100.0
Average	50.5	10.4	3.0	12.1	8.5	84.5	13.5	2.0	100.0

Table VIII reflects the percentage of total assignable area by principal use based on the areas shown in Table VII. The Instruction category accounts for 50.5% of the NASF (Net Assignable Square Feet) and ranges from a low of 40.9% at the University of Oregon to a high of 79.9% at Oregon Technical Institute. About 10% of the space at the seven institutions is devoted to Research, whereas Libraries and Museums account for over 12% of non-residential NASF.

A further analysis of areas within the category of Instruction is made in a later part of this section of the report.

TABLE IX
DISTRIBUTION OF ASSIGNABLE AREAS BY PRINCIPAL USE WITHIN NON-RESIDENTIAL FACILITIES
AT SEVEN INSTITUTIONS - FALL TERM 1968

Institution	FTE enrollment, Fall Term 1968	Instruction (Including P.E.)	Research	Gen. Admin. & Instructional Services	Libraries & Museums	Other Including Phys. Plant & Cent. Serv.	Subtotal	Aux. Enterprises, Health Serv., Student Union, Etc.	Non-Instructional Agencies & Other	Total
III. Average Assignable Area per FTE Student										
EOC	1,530	66.0	0.9	5.1	16.6	16.6	105.2	10.9	0.0	116.1
OCE	3,116	42.8	3.2	3.8	10.5	7.4	67.7	10.5	1.6	79.8
OSU	14,441	65.9	22.8	3.5	7.9	10.2	110.3	19.4	3.0	132.7
SOC	3,741	48.5	0.0	3.3	11.7	3.5	67.0	8.2	0.0	75.2
UO	13,763	39.7	10.6	2.5	17.9	10.1	80.8	13.3	3.1	97.2
PSU	8,999	40.4	1.5	2.4	12.8	5.1	62.2	11.2	0.3	73.7
OTI	1,283	128.0	0.2	3.9	6.2	15.6	153.9	6.3	0.1	160.3
Total	46,873									
Average (Sq. Ft.)		52.1	10.7	3.1	12.5	8.8	87.2	13.9	2.0	103.1

Table IX reflects the NASF (Net Assignable Square Feet) per Fall Term FTE student, by institution, for each of the functional categories. Of the total of 103.1 square feet per FTE student, 52.1 square feet is allocated to Instruction; 12.5 square feet to Libraries and Museums; 10.7 square feet to Research; 8.8 square feet to Physical Plant and Centralized Services, and minor allocations to General Administration and Instructional Services and Non-institutional Agencies. The totals for the seven institutions range from a low of 73.7 square feet per Fall Term FTE student at Portland State University to a high of 160.3 square feet per Fall Term FTE student at Oregon Technical Institute.

Oregon Technical Institute has the highest total, principally because of the large amount of laboratory and shop space needed for the programs and curriculum of the institution.

The average of 52.1 NASF per Fall Term FTE student in the Instruction category ranges from a low of 39.7 NASF/Fall Term FTE student at the University of Oregon to a high of 128.0 NASF/Fall Term FTE student at Oregon Technical Institute.

Despite authorizations for several new buildings in 1965-1967, the NASF/FTE has decreased from 105.5 in 1966 to 103.1 in 1968. Many of the projects authorized by the 1967 Legislature are not yet available for use.

National planning figures indicate an average of 120 NASF/FTE of nonresidential facilities at typical four-year institutions and substantially larger areas at technical institutes.

TABLE X
DISTRIBUTION OF ASSIGNABLE AREAS BY PRINCIPAL USE WITHIN NON-RESIDENTIAL
FACILITIES AT THE UNIVERSITY OF OREGON DENTAL AND MEDICAL SCHOOLS
FALL TERM 1968

<u>Institution</u>	<u>Instruction</u>	<u>Research</u>	<u>Gen. Admin. & Instructional Services</u>	<u>Other Including Libraries & Museums Phys. Plant & Cent. Serv.</u>	<u>Subtotal</u>	<u>Aux. Ent., Health Serv., Student Union, Etc.</u>	<u>Pat. Care Teach. Hosp. Outpatient Clinic</u>	<u>Total</u>
I. Total Assignable Area								
UODS	30,968	13,168	3,499	2,134	52,999	9,532	23,720	86,251
UOMS	63,402	123,613	11,646	99,376	322,622	51,564	150,085	524,271#
II. Percentage of Total Assignable Area by Principal Use								
UODS	35.9%	15.3%	4.0%	3.7%	61.4%	11.1%	27.5%	100.0%
UOMS	12.1	23.6	2.2	4.7	61.6	9.8	28.6	100.0
III. Average Assignable Area per FTE Student								
UODS (398 FTE)	77.8	33.1	8.8	8.1	133.2	23.9	59.6	216.7
UOMS (866 FTE)	73.2	142.7	13.4	28.4	372.5	59.6	173.3	605.4

Excludes parking structure

Table X was prepared to analyze the amount of NASF (Net Assignable Square Feet) devoted to the various functional categories, the percentage relationship of the functional categories to the total non-residential space and the amount of NASF/Fall Term FTE for each of the functional categories at the University of Oregon Dental School and the University of Oregon Medical School.

Nearly one-fourth of the NASF of non-residential facilities at the University of Oregon Medical School is assigned to the category of research. Over one-fourth of the space is devoted to functions identified as patient care, teaching hospital, and outpatient clinic at both institutions.

STANDARD CLASSIFICATION OF ORGANIZATIONAL UNITS

Institutions of higher education vary widely in their organization. Tables of organization range from colleges without any departmental structure to institutions organized by departments, divisions, colleges, institutes, and so on. Examples can be found of single departments organizationally responsible to two or three colleges within an institution.

Despite these widely divergent patterns of organization, it is possible to distinguish certain elements of commonality however formally or informally these may reflect themselves in a table of organization. Eight broad categories of organizational units have been identified, not all of which occur in the case of any given institution:

1. Departments of Instruction and Research

Includes separately budgeted research which is organizationally part of an instruction-and-research department, irrespective of the sources of funds or other budgetary distinctions. (See also Category 3.)

2. Organized Activity Units (Related to Instruction and Research)

Demonstration and practice schools for education departments; demonstration and practice homes for home economics departments; teaching hospitals for medical schools; and any other organizationally separate and physically identifiable units which are functionally related to departments of instruction and research, or to organized research units.

3. Organized Research Units

Research institutes, laboratories, etc., which are organizationally separate and physically identifiable, irrespective of the sources of funds. This category does not include research projects which are organizationally part of, and physically indistinguishable from, the other research activities in a department of instruction and research.

4. Public Service Units

Extension, i.e., adult or continuing education, including agricultural extension, engineering extension, etc., also any other organizationally separate public service unit.

5. Library

Main library and branches thereof, or equivalent, including subject field libraries administered by the main library or otherwise professionally staffed, including law libraries and medical libraries, but not informal "departmental libraries" which are organizationally part of any units in categories 1, 2, 3, or 4 above.

6. General Administration and Institutional Services

Any activity the primary objective of which is the orderly planning and operation of the instruction, research, and/or public service functions of an institution of higher education in terms of academic affairs, fiscal affairs, personnel, student affairs, public relations, development, etc. For the purposes of this classification system, this category is intended to include the functions represented by the budget categories of General Administration, General Services and Physical Plant.

7. Auxiliary Services

Activities which are characteristically represented by the types of facilities classified by "Room Type" as "GENERAL-USE FACILITIES" and "RESIDENTIAL FACILITIES" except to the extent such activities support instruction, research and/or public service.

8. Non-institutional Agencies

Public or private agencies not under the supervision or control of the institutional administration.

TABLE XI
DISTRIBUTION OF NET ASSIGNABLE SQUARE FEET
OF SPACE ALLOCATED BY ORGANIZATION UNIT
AS OF DECEMBER 31, 1968

<u>Institution</u>	<u>Dept. of Instruction and Research</u>	<u>Organized Activities</u>	<u>Organized Research</u>	<u>Public Service</u>	<u>Library</u>	<u>General Admin- istration and Institutional Services</u>	<u>Auxiliary Services</u>	<u>Non Insti- tutional Agencies</u>	<u>Total Net Assignable Square Feet</u>
EJC	97,385	17,686	0	104	25,682	19,153	102,881	0	262,891
OCE	120,319	32,878	0	2,670	29,918	27,846	134,435	9,603	357,669
OSU	1,647,293	24,735	19,313	55,597	105,710	154,049	904,977	93,910	3,005,584
SOC	189,000	109	0	3,991	42,300	25,489	197,564	339	458,792
UO	697,745	19,960	52,897	34,585	210,762	140,939	633,032	28,362	1,818,282
PSU	<u>347,129</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>115,780</u>	<u>32,245</u>	<u>389,202</u>	<u>14,853</u>	<u>899,209</u>
Subtotals	3,098,871	95,368	72,210	96,947	530,152	399,721	2,362,091	147,067	6,802,427
Percent	45.55%	1.40%	1.06%	1.43%	7.80%	5.88%	34.72%	2.16%	100.00%
OTI	163,731	357	0	173	8,663	23,374	92,516	239	289,053
UODS	51,304	249	1,914	1,720	3,230	25,175	5,071	0	88,663
UOMS	<u>164,858</u>	<u>153,994</u>	<u>27,364</u>	<u>2,324</u>	<u>23,740</u>	<u>81,654</u>	<u>58,054</u>	<u>0</u>	<u>511,988</u>
Totals	<u>3,478,764</u>	<u>249,968</u>	<u>101,488</u>	<u>101,164</u>	<u>565,785</u>	<u>529,924</u>	<u>2,517,732</u>	<u>147,306</u>	<u>7,692,131</u>
Percent	45.22%	3.24%	1.32%	1.32%	7.36%	6.89%	32.73%	1.92%	100.00%

Since the data for Table XI has been prepared in the format required for the HEGIS (Higher Education General Information Survey) report for the statistical division of the U. S. Office of Education, it varies slightly with the reports prepared for the Oregon Educational Coordinating Council and the analyses of NASF (Net Assignable Square Feet) by function presented earlier. For example, the HEGIS reports delete certain types of library space, such as group study rooms and audio-visual studies, from the library category. Furthermore, all inventoried spaces, including residential areas, are analyzed in Table XI.

A review of Table XI indicates that less than one-half of available space is devoted to departments of instruction and research, and that approximately one-third of the space available within the System is assigned to auxiliary services.

TYPE OF SPACE

Spaces are categorized by type and grouped as follows:

1. Classroom Facilities - Any space used for class meetings which does not require special purpose equipment and is subject to regular assignment by the Registrar.

This category includes classrooms, seminar rooms, group study rooms and audio-visual studios. It also includes classrooms in demonstration and laboratory schools used in teacher education.

2. Laboratory Facilities - A room which may be used by regularly scheduled classes which require special-purpose equipment for student and/or staff participation, experimentation, observation, or practice in a field or study.

This category includes laboratories, special purpose laboratories, pilot plant laboratories, student practice rooms, office-laboratories, animal quarters, balance rooms, etc.

3. Office Facilities - A room or suite of rooms with or without office-type equipment that may be assigned to one or more persons primarily for the performance of administrative, clerical, or faculty duties other than the meeting of classes.

This category includes administrative, faculty and staff offices, conference rooms, graduate student-study-offices, drafting rooms, file rooms, waiting-reception rooms, and work rooms.

4. Study Facilities - A room or group of rooms used for the collection, storage, circulation and use of books, periodicals, manuscripts, and other reading or reference materials or any room used for display of special collections such as historical documents, mineral samples, stuffed animals, etc.

This category includes reading rooms, study, listening rooms, books, non-book materials, service desk areas and card catalogue areas.

5. Special Use Facilities - This category includes gymnasium, swimming pools, armories, agricultural field activities, radio and TV spaces, demonstration facilities, etc.

6. All other Facilities - This category includes auditoriums or theaters, exhibition facilities, food facilities, lounges, merchandising areas and recreational facilities.

7. Supporting Facilities - This category includes physical plant, parking, greenhouses, printing press, warehouse space, and certain other service areas.

8. Medical Care Facilities - This category includes types of space normally associated with the Medical and/or Dental Schools although they are also applicable to health service facilities and/or infirmaries at all institutions.

9. Residential Facilities - Rooms or groups of rooms used principally in residence hall or dormitory functions.

10. Non-institutional Agencies - Defined in the Organizational Unit section of this report.

TABLE XII
DISTRIBUTION OF NET ASSIGNABLE SQUARE FEET BY TYPE OF SPACE
AS OF DECEMBER 31, 1968

Institution	Class-rooms*	Laboratories*	Offices*	Study	Special Use	All Other	Support-ing	Medical Care	Residential	Non Insti-tutional Agencies	Total Net Assignable Square Feet
EOC	18,974	28,118	22,322	22,958	44,982	34,276	22,421	906	67,934	0	262,891
OCE	37,633	23,874	46,688	27,433	35,688	49,065	26,792	2,410	98,483	9,603	357,669
OSU	113,594	729,378	407,339	124,783	404,675	190,273	374,372	13,869	553,391	93,910	3,005,584
SOC	30,561	48,257	50,751	38,944	54,976	49,738	42,475	3,144	139,607	339	458,792
UO	119,377	202,513	336,566	243,199	147,942	218,016	208,691	15,476	298,140	28,362	1,818,282
PSU	57,240	96,377	107,263	108,174	75,103	78,474	361,725	0	0	14,853	899,209
Subtotals	377,379	1,128,517	970,929	565,491	763,366	619,842	1,036,476	35,805	1,157,555	147,067	6,802,427
Percent	5.55%	16.59%	14.27%	8.31%	11.22%	9.11%	15.24%	0.53%	17.02%	2.16%	100.00%
OTI	7,264	109,509	18,771	5,670	31,818	23,703	32,350	1,071	58,658	239	289,053
UODS	7,159	25,257	14,792	2,714	3,572	8,351	7,104	19,572	142	0	88,663
UOMS	13,787	103,772	131,728	22,141	22,442	41,666	66,339	88,737	21,376	0	511,988
Totals	405,589	1,367,055	1,136,220	596,016	821,198	693,562	1,142,269	145,185	1,237,731	147,306	7,692,131
Percent	5.27%	17.77%	14.77%	7.75%	10.68%	9.01%	14.85%	1.89%	16.09%	1.91%	100.00%

* Includes related service spaces.

Table XII identifies space available in the State System by type of space code. The data have been prepared in the format required by the HEGIS (Higher Information General Information Survey) report similar to the previous table. Each category includes service areas which are associated with and located immediately adjacent to the major type of space. These areas are normally related directly to the major area. Other service type spaces are identified in the supporting facilities category.

All classrooms, including those in demonstration facilities and laboratory schools, with associated services area make up less than 6% of the total space at the nine institutions of the State System. The living-learning areas (classroom, laboratory, office, study and residential categories) of the State System make up about three-fifths of the available space.

SECTION ~~II~~

SCHEDULED OCCUPANCY OF CLASSROOMS AND LABORATORIES

The methodology of obtaining data was described earlier for the Fall Term 1968 Survey on the Use of Space. The data contained in this section exclude scheduled use of gymnasias, other physical education activity areas, and ROTC drill areas as well as classroom and laboratory hours not scheduled by the institutional Registrar's office. Also excluded are hours scheduled for VISTA at the University of Oregon. Finally, the data do not include classroom and laboratory hours scheduled in temporary facilities such as war surplus structures, some quonset huts, conference rooms, faculty offices, etc.

In the interpretation of data relative to the scheduled occupancy of classrooms and laboratories, one should be cognizant that the areas of such types of space constitute only a relatively small percentage of the net usable area available with the various facilities of each college or university. For example, instructional classrooms, excluding related service areas, at the seven institutions (excluding UODS and UOMS) account for only about 6.7% of the nonresidential NASF (Net Assignable Square Feet) available and only about 4.5% of all NASF available. Instructional laboratories at the seven institutions account for only about 11.1% of the nonresidential NASF available and only about 7.5% of all NASF available. Additively, the space for both classrooms and laboratories would account for only about 18% of the nonresidential NASF available and only about 13% of all NASF available.

The Oregon State Board of Higher Education has adopted Space Use Objectives and Building Planning Standards as one of its policies in planning for new facilities. The following are the minimum objectives summarily as adopted by the Board on July 26, 1960 and reaffirmed on June 12, 1962:

A. Room Use:

Classrooms - Achieve an average use of 30 scheduled hours per week.

Laboratories - Achieve an average use of 20 scheduled hours per week.

B. Student Stations Use:

Classrooms - Achieve an average use of 18 scheduled hours per week.

Laboratories - Achieve an average use of 16 scheduled hours per week.

The complete set of objectives as adopted by the Board are listed in Appendix B.

TABLE XIII
SUMMARY OF CLASSROOM STUDENT STATION DATA
FALL TERM 1968

Institution	1968 Fall Term FTE Enrollment	No. of Classroom Student Stations	Total Sq. Ft. Area	Hours of Scheduled Occupancy			Totals Hrs. Scheduled Occupancy Per Week	Net Assign- able Sq. Ft. Per Student Station	Net Assignable Sq. Ft. Per FTE Student
				8 a.m.- 5 p.m.	5-10 p.m. & Saturday				
EOC	1,530	706	9,822	12,745	732		13,477	13.9	6.4
OCE	3,116	1,275	18,176	30,131	2,178		32,309	14.3	5.8
OSU	14,441	7,234	104,285	150,636	6,062		156,698	14.4	7.2
SOC	3,741	1,834	27,692	42,052	3,156		45,208	15.1	7.4
UO	13,763	7,092	91,249	142,988	21,840		164,828	12.9	6.6
PSU	8,999	4,699	63,402	92,232	25,730		117,962	13.5	7.0
Subtotals	45,590	22,840	314,626	470,784	59,698		530,482		
Mean								14.0	6.7
Weighted Mean								13.8	6.9
OTI	1,283	420	6,960	11,732	1,333		13,065	16.6	5.4
Totals	46,873	23,260	321,586	482,516	61,031		543,547		
Mean								14.4	6.5
Weighted Mean								13.8	6.9

Table XIII gives a summary of the total amount of space allocated to classrooms during the Fall Term 1968 at each of the seven institutions. In addition to the total space in the classrooms, the hours of scheduled occupancy are reported for the time periods of 8 a.m. to 5 p.m. on Monday through Friday (which make up the 45-hour week) and the 5 p.m. to 10 p.m., Saturday hours and DCE (Division of Continuing Education) hours. The NASF (Net Assignable Square Feet) per student station and NASF per FTE student have been noted for the seven institutions as well as their respective mean and weighted mean values.

Data on the NASF per classroom student station varies from 12.9 at the University of Oregon to 16.6 at Oregon Technical Institute with a mean of 14.4 NASF/student station and a weighted mean of 13.8 NASF/student station. This is comparable to a planning figure of 15 NASF per student station that is commonly used for classrooms.

Data on the NASF per FTE student varies from 5.4 at Oregon Technical Institute to 7.4 at Southern Oregon College with a mean of 6.5 NASF/FTE student and a weighted mean of 6.9 NASF/FTE student.

Complete information for each institution is available on Schedule III of the Fall Term 1968 Space Utilization Report.

TABLE XIV
Data on CLASSROOM utilization - OREGON STATE SYSTEM OF HIGHER EDUCATION (7-Institutions, EOC, OCE, OSU, SOC, UO, PSC, and OTI)

45-hour week (8 a.m. - 5 p.m.)

Other hours (5 p.m. - 10 p.m. & Saturday)

DCE hours (Sponsored by the Division of Continuing Education)

Hours of Scheduled Occupancy of Classrooms Per Week

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968
45-hour week	8,985	8,930	9,333	9,364	9,447	10,317	11,072	12,013	12,087	12,353
Other hours	222	342	272	481	622	638	710	794	929	1,218
Subtotal	9,207	9,272	9,605	9,845	10,069	10,955	11,782	12,807	13,016	13,571
DCE hours	594	830	760	896	1,010	1,206	1,210	1,182	1,102	1,123
Total hours	9,801	10,102	10,365	10,741	11,079	12,161	12,992	13,989	14,118	14,694
No. Classrooms	421	399	355	356	345	362	376	399	398	417
Temporary hours	0	0	266	605	872	1,023	1,412	681	1,032	1,004
Temporary rooms	0	0	17	43	56	58	65	51	67	73

Average Hours of Scheduled Occupancy of Classrooms Per Week

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968
45-hour week	21.3	22.4	26.3	26.3	27.4	28.5	29.4	30.1	30.4	29.6
Other hours	0.6	0.9	0.8	1.4	1.8	1.8	1.9	2.0	2.3	2.9
Subtotal	21.9	23.3	27.1	27.7	29.2	30.3	31.3	32.1	32.7	32.5
DCE hours	1.4	2.1	2.1	2.5	2.9	3.3	3.3	3.0	2.8	2.7
Total hours	23.3	25.4	29.2	30.2	32.1	33.6	34.6	35.1	35.5	35.2

Table XIV indicates the progress each institution has made in the scheduling of classrooms from Fall Term 1959 through Fall Term 1968. In addition, totals have been prepared for the seven institutions (excluding the Dental and Medical Schools) to reflect the regular 45-hour week and the scheduling of other hours, including DCE hours.

Classrooms in the seven institutions of the Oregon State System of Higher Education are in use an average of 35.2 hours per week. This is above the planning objective of 33 hours of scheduled occupancy per week which the Board's staff has used in formulating capital outlay requests for legislative approval.

FIGURE 3
OREGON STATE SYSTEM OF HIGHER EDUCATION
(7 Institutions - EOC, OCE, OSU, SOC, UO, PSU, & OTI)
Classrooms

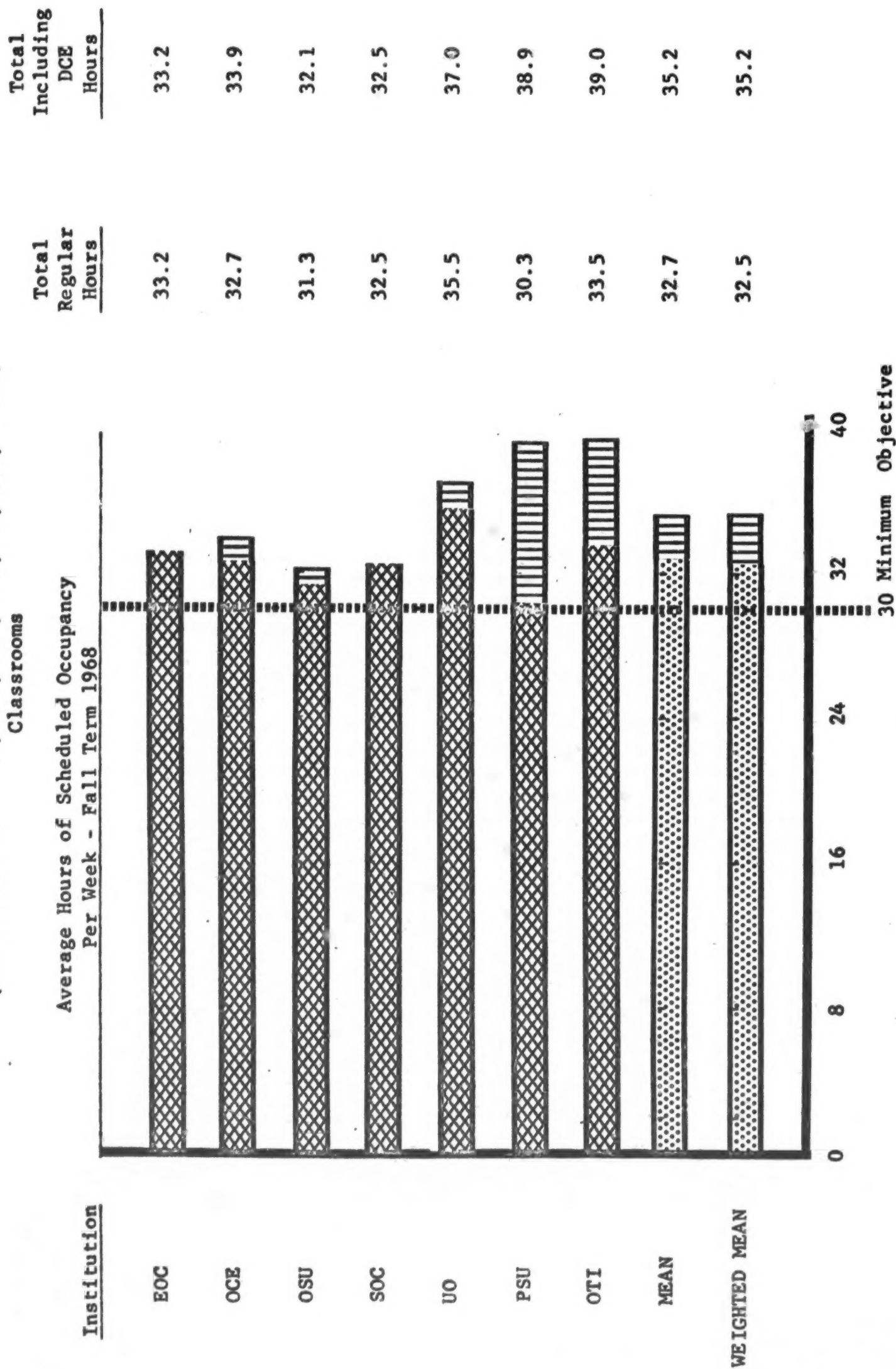
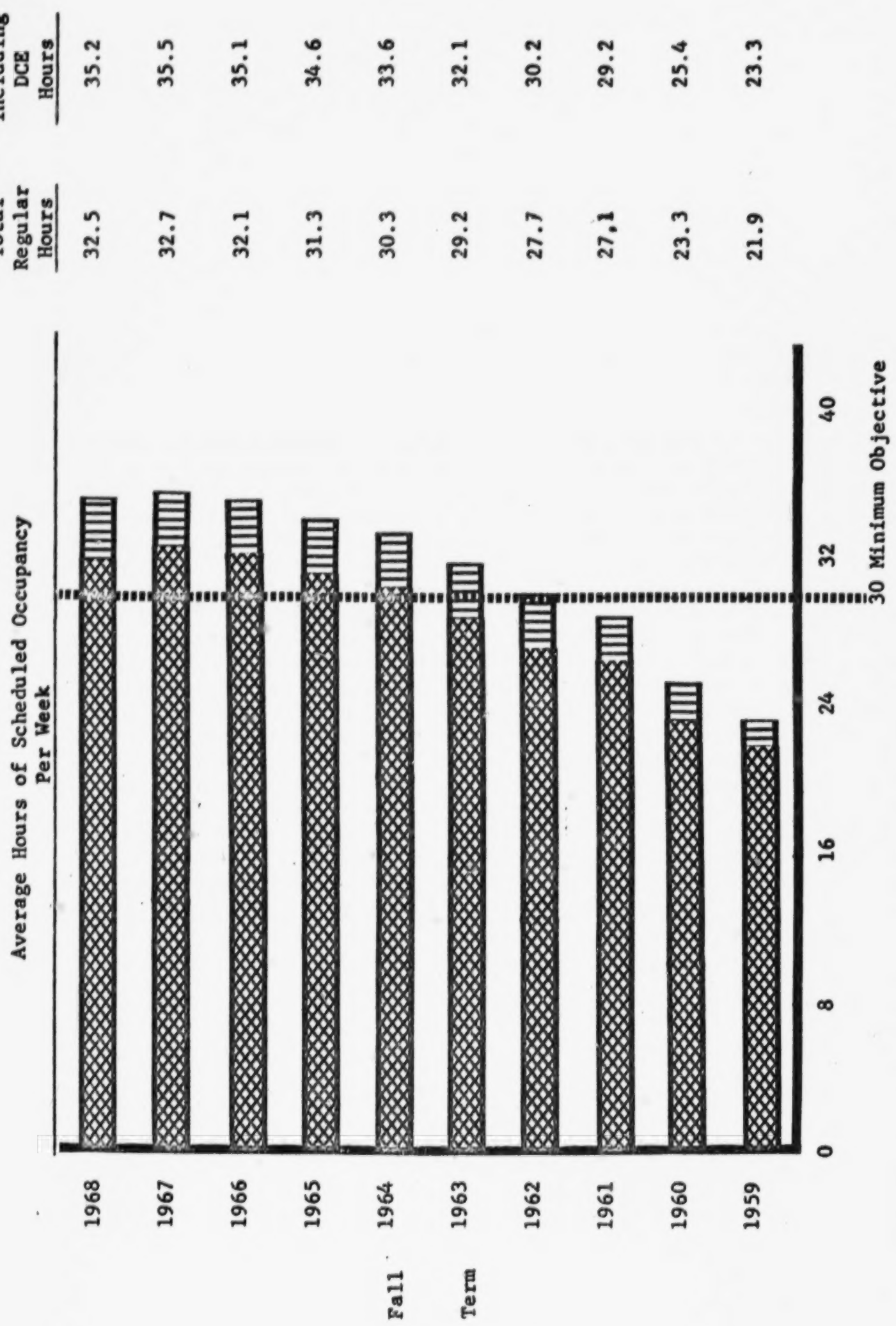


Figure 3 gives the average hours of scheduled occupancy of classrooms per week for the period of 8 a.m. to 5 p.m., Monday through Friday (representing the 45-hour week) and other hours combined (noted as "Total Regular Hours") and the total hours of scheduled occupancy including DCE hours. More complete information of the scheduled hours for each institution may be found in Exhibit 2 of Schedule III of the Fall Term 1968 Space Utilization Report. The average regular hours of scheduled occupancy range from 30.3 at Portland State University to 35.5 average hours at the University of Oregon, with a mean of 32.7 hours and a weighted mean of 32.5 hours. The total average hours of scheduled occupancy, including evening, Saturday and DCE hours, vary from 32.1 average hours at Oregon State University to 39.0 average hours at Oregon Technical Institute with a mean and weighted mean of 35.2 hours. Figure 3 also illustrates how each institution compares with the Board's minimum objective of 30.0 average hours of scheduled occupancy. Note that all institutions are above the minimum objective even when DCE hours are excluded.

FIGURE 4
OREGON STATE SYSTEM OF HIGHER EDUCATION
(7 Institutions - EOC, OCE, OSU, SOC, UO, PSU, & OTI)
Classrooms



Scale: 1 inch = 8 hours

Figure 4 illustrates graphically the progress of increased average hours of scheduled occupancy that has been achieved by the seven institutions from 21.9 hours in 1959 (excluding Oregon Technical Institute) to 32.5 hours in 1968. Note that total hours have exceeded the Board's minimum objective since Fall Term 1964. When all hours, including DCE hours, are listed, the progress of increased average hours of scheduled occupancy has been achieved by the seven institutions from 23.3 hours in 1959 (excluding Oregon Technical Institute) to 35.2 hours in 1968. In this case, the Board's minimum objective has been exceeded since 1962.

TABLE XV

Data on CLASSROOM STUDENT STATION utilization - OREGON STATE SYSTEM OF HIGHER EDUCATION (7-Institutions, EOC, OCE, OSU, SOC, UO, PSC, and OTI)

45-hour week (8 a.m. - 5 p.m.)

Other hours (5 p.m. - 10 p.m. & Saturday)

DCE hours (Sponsored by the Division of Continuing Education)

Hours of Scheduled Occupancy of Classroom Student Stations Per Week

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968
45-hour week	255,370	274,820	304,768	321,283	325,296	353,880	407,236	425,944	452,469	482,516
Other hours	4,412	7,250	5,472	11,450	12,418	14,026	18,681	21,078	24,893	32,496
Subtotal	259,782	282,070	310,240	332,733	337,714	367,906	425,917	447,022	477,362	515,012
DCE hours	15,041	23,586	21,896	25,048	27,582	33,063	34,404	30,075	28,683	28,535
Total hours	274,823	305,656	332,136	357,781	365,296	400,969	460,321	477,097	506,045	543,547
Student Stations*	23,600	21,324	20,111	20,664	20,100	20,171	20,321	22,004	21,924	23,260
Temporary hours	0	0	6,400	16,747	21,222	19,375	34,186	18,622	24,471	29,049
Temporary station										

Average Hours of Scheduled Occupancy of Classroom Student Stations Per Week

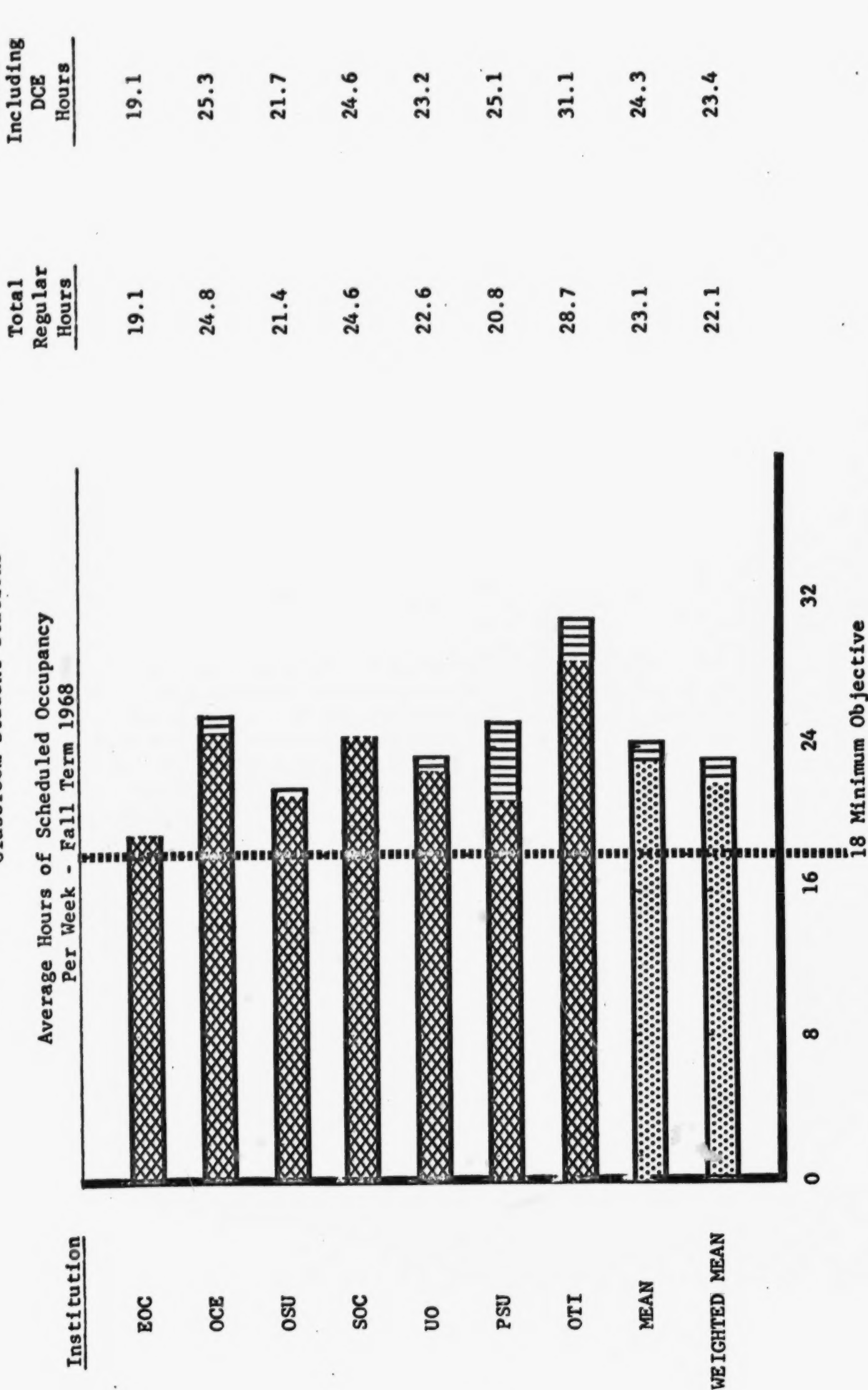
	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968
45-hour week	10.8	12.9	15.2	15.5	16.2	17.5	20.0	19.4	20.6	20.7
Other hours	0.2	0.3	0.2	0.6	0.6	0.7	1.0	0.9	1.2	1.4
Subtotal	11.0	13.2	15.4	16.1	16.8	18.2	21.0	20.3	21.8	22.1
DCE hours	0.6	1.1	1.1	1.2	1.4	1.6	1.7	1.4	1.3	1.3
Total hours	11.6	14.3	16.5	17.3	18.2	19.8	22.7	21.7	23.1	23.4

* For the years 1959 through 1962 the stations represent the actual number of stations available.

For the years 1963 through 1968 the stations represent the optimum number of stations available.

Table XV indicates the total and average hours of scheduled occupancy of classroom student stations per week during the 45-hour week for the seven institutions from Fall Term 1959 (excluding Oregon Technical Institute) through Fall Term 1968 as well as the other hours and DCE hours. The data are illustrated graphically on Figures 5 and 6.

FIGURE 5
OREGON STATE SYSTEM OF HIGHER EDUCATION
(7 Institutions - EOC, OCE, OSU, SOC, UO, PSU, & OTI)
Classroom Student Stations



Average hours in regularly scheduled classroom student stations (8 a.m. - 10 p.m. & Sat.)

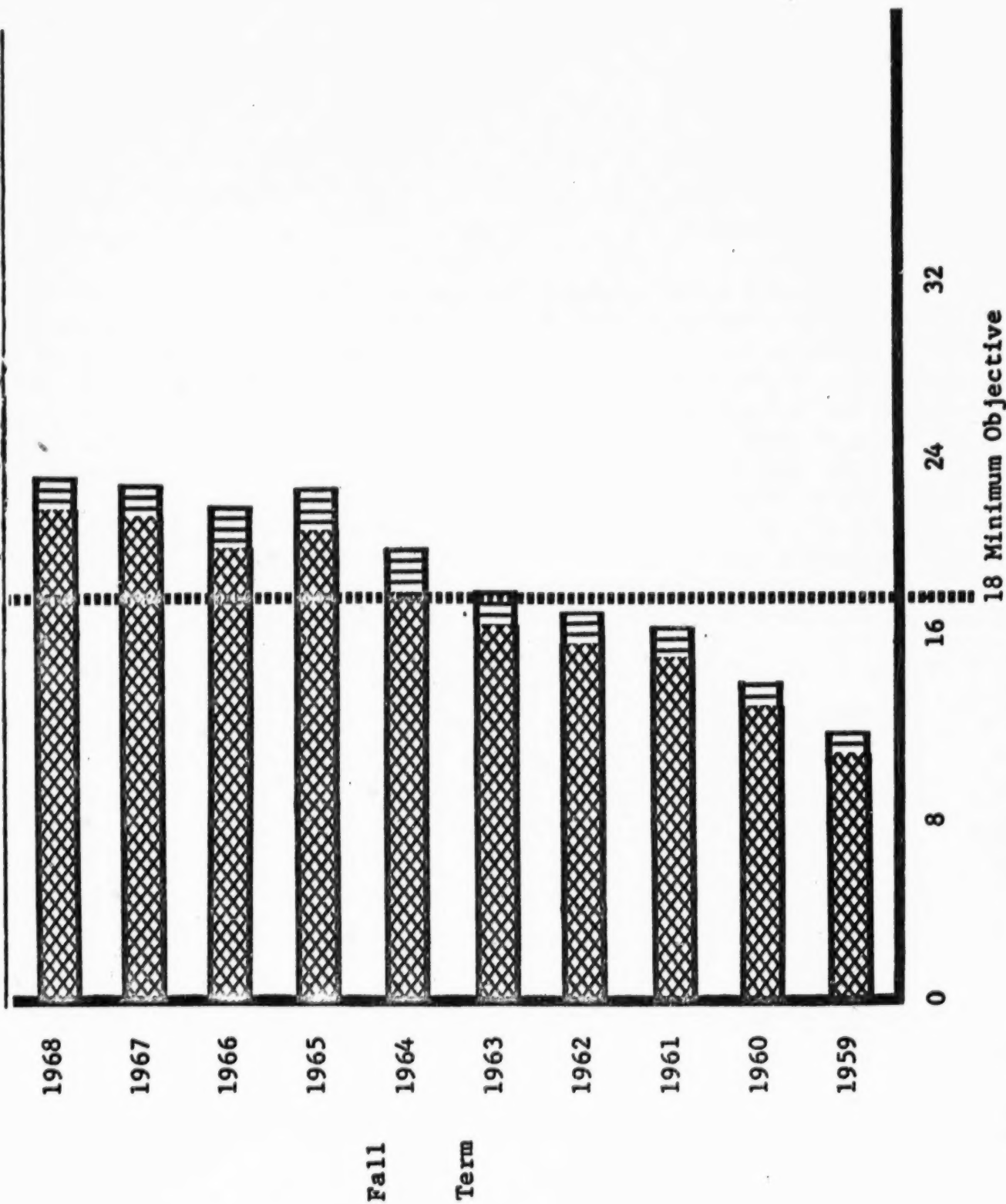
Additional hours scheduled by the Division of Continuing Education

Figure 5 illustrates the average hours of scheduled occupancy of classroom student stations per week for Fall Term 1968 for the seven institutions. For the 45-hour week and other hours, the average hours of scheduled occupancy vary from 19.1 at Eastern Oregon College to 28.7 at Oregon Technical Institute with a mean of 23.1 hours and a weighted mean of 22.1 hours. It may be noted that all of these figures are above the Board's minimum objective of 18 hours of scheduled occupancy of classroom student stations. The total hours of scheduled occupancy including DCE hours vary from 19.1 at Eastern Oregon College to 31.1 hours at Oregon Technical Institute with a mean of 24.3 hours and a weighted mean of 23.4 hours of scheduled occupancy.

FIGURE 6
OREGON STATE SYSTEM OF HIGHER EDUCATION
 (7 Institutions - EOC, OCE, OSU, SOC, UO, PSU, & OTI)
Classroom Student Stations

Average Hours of Scheduled Occupancy

Per Week



Average hours in regularly scheduled classroom student stations (8 a.m. - 10 p.m. & Sat)

Additional hours scheduled by the Division of Continuing Education

Scale: 1 inch = 8 hours

Figure 6 illustrates the progress that has been achieved by the seven institutions in scheduling the classroom student stations. In Fall Term 1959, the scheduled occupancy of classroom student stations averaged 11.0 hours whereas in Fall Term 1968 scheduled occupancy had increased to an average of 22.1 hours. The analysis of total hours plus DCE hours indicates progress from 11.6 average hours of scheduled occupancy in Fall Term 1959 to 23.4 average hours in Fall Term 1968. Note that since Fall Term 1964 average total regular hours of scheduled occupancy have been greater than the Board's minimum objective of 18 hours. More detailed information on the scheduling of classroom student stations for Fall Term 1968 can be found in Exhibit 4 of Schedule III for each institution (see Appendix A).

TABLE XVI
SUMMARY OF LABORATORY STUDENT STATION DATA
FALL TERM 1968

<u>Institution</u>	<u>1968 Fall Term FTE Enrollment</u>	<u>No. of Classroom Student Stations</u>	<u>Total Sq. Ft. Area</u>	<u>Hours of Scheduled Occupancy</u>			<u>Total Hrs. Scheduled Occupancy Per Week</u>	<u>Net Assign- able Sq. Ft. Per Student Station</u>	<u>Net Assignable Sq. Ft. Per FTE Student</u>
EOC	1,530	471	22,004	6,314	1,089		7,403	46.7	14.4
OCE	3,116	416	11,781	7,049	810		7,859	28.3	3.8
OSU	14,441	5,107	225,377	67,529	4,460		71,989	44.1	15.6
SOC	3,741	799	33,488	13,548	1,010		14,558	41.9	9.0
UO	13,763	1,768	74,449	27,741	7,037		34,778	42.1	5.4
PSU	8,999	1,520	62,836	24,301	6,319		30,620	41.3	7.0
Subtotals	45,590	10,081	429,935	146,482	20,725		167,207		
Mean							40.7		9.2
Weighted Mean							42.6		9.4
OTI	1,283	898	105,381	16,370	904		17,274		
Totals	46,873	10,979	535,316	162,852	21,629		184,481		
Mean							51.7		19.6
Weighted Mean							48.8		11.4

Table XVI gives a summary of the total amount of space allocated to the scheduled laboratories in the Fall Term 1968. NASF (Net Assignable Square Feet) per student station and NASF per FTE student have been identified with mean and weighted mean values for each. Hours of scheduled occupancy for laboratories for 8 a.m. to 5 p.m. Monday through Friday (representing the 45-hour week), for the 5 p.m. to 10 p.m., Saturday hours, DCE hours, and the total hours of scheduled occupancy for the seven institutions are indicated.

The number of NASF per student station varies from 28.3 at Oregon College of Education to 117.4 at Oregon Technical Institute with a mean of 51.7 NASF per student station and a weighted mean of 48.8 NASF per student station. When the data for only six institutions (excluding Oregon Technical Institute) are tabulated, the mean is only 40.7 NASF per student station and the weighted mean is 42.6 NASF per student station.

The Board's building planning standards permit typical laboratories to be from 30 to 50 square feet per station for the larger 30-40 station laboratories. This is exclusive of the 20% additional area permitted for storage, preparation or related service areas. Smaller sized laboratories are permitted to have a larger per station area. In addition, the more advanced and specialized courses usually require a larger per station size.

The number of NASF per FTE student varies from 3.8 at Oregon College of Education to 82.1 at Oregon Technical Institute with a mean of 19.6 NASF per FTE student and a weighted mean of 11.4 NASF per FTE student. When the data for only six institutions are tabulated, omitting Oregon Technical Institute, the mean drops to 9.2 NASF per FTE student and the weighted mean becomes 9.4 NASF per FTE student.

TABLE XVII

Data on LABORATORY utilization - OREGON STATE SYSTEM OF HIGHER EDUCATION (7- Institutions, EOC, OCE, OSU, SOC, UO, PSC, and OTI)

45-hour week (8 a.m. - 5 p.m.)

Other hours (5 p.m. - 10 p.m. & Saturday)

DCE hours (Sponsored by the Division of Continuing Education)

Hours of Scheduled Occupancy of Laboratories Per Week

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968
45-hour week	4,836	5,011	5,932	6,085	6,352	7,325	7,449	7,734	7,922	8,034
Other hours	197	313	369	463	495	469	543	561	655	726
Subtotal	5,033	5,324	6,301	6,548	6,847	7,794	7,992	8,295	8,577	8,760
DCE hours	138	179	159	283	279	305	381	334	387	273
Total hours	5,171	5,503	6,460	6,831	7,126	8,099	8,373	8,629	8,964	9,033
No. Laboratories	304	310	337	346	341	377	375	405	410	446
Temporary hours	0	0	20	104	172	242	314	381	513	504
Temporary rooms	0	0	3	12	11	17	24	34	43	41

Average Hours of Scheduled Occupancy of Laboratories Per Week

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968
45-hour week	15.9	16.2	17.6	17.6	18.6	19.4	19.9	19.1	19.3	18.0
Other hours	0.6	1.0	1.1	1.3	1.5	1.3	1.4	1.4	1.6	1.6
Subtotal	16.5	17.2	18.7	18.9	20.1	20.7	21.3	20.5	20.9	19.6
DCE hours	0.5	0.6	0.5	0.8	0.8	0.8	1.0	0.8	1.0	0.7
Total hours	17.0	17.8	19.2	19.7	20.9	21.5	22.3	21.3	21.9	20.3

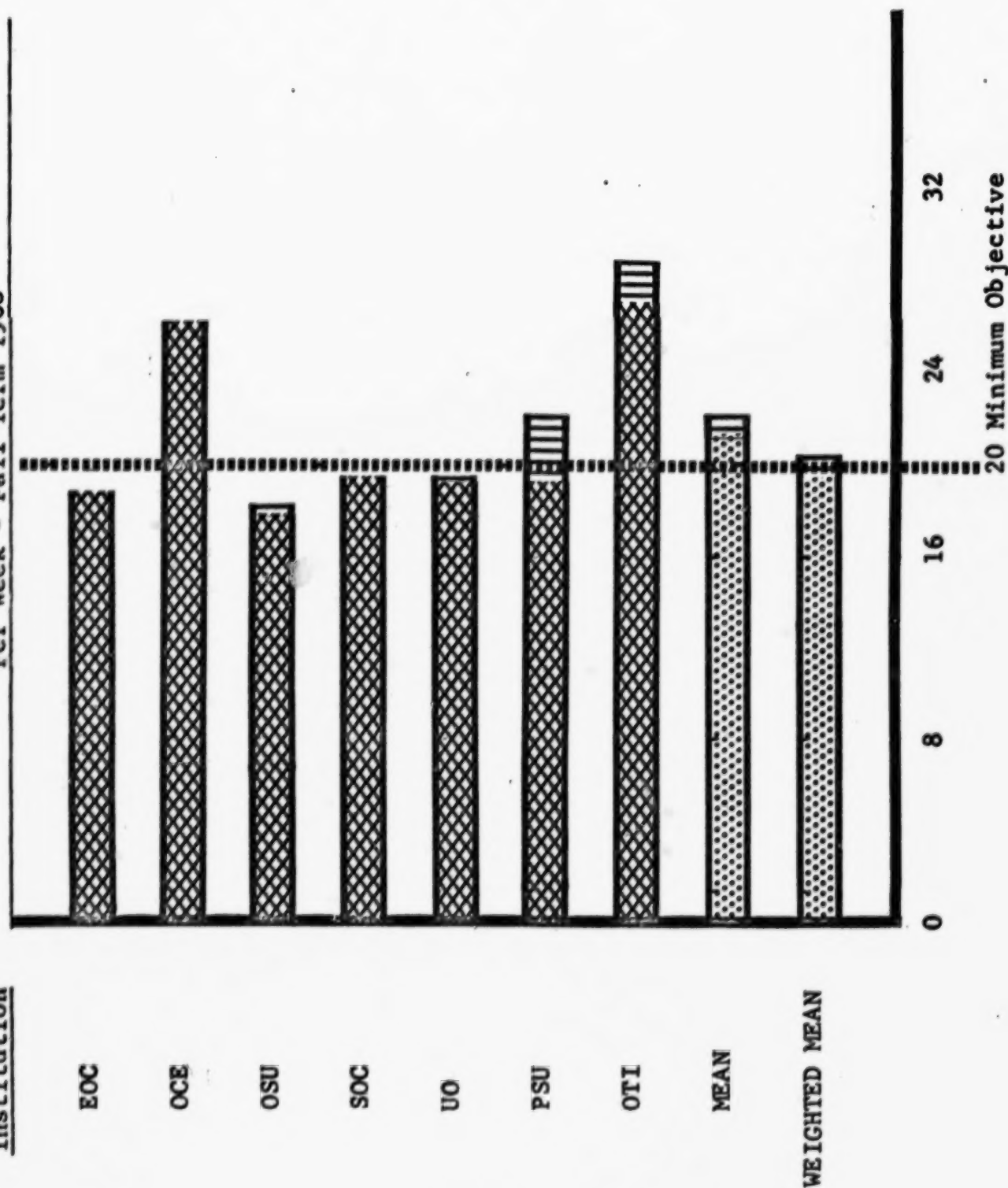
Table XVII indicates the progress each institution has made in the scheduling of laboratories from Fall Term 1959 through Fall Term 1968. In addition, totals have been prepared for the seven institutions to reflect the regular 45-hour week scheduling and the scheduling of other hours plus those hours of DCE.

Scheduled occupancy of instructional laboratories averaged 20.3 hours per week during Fall Term 1968, right above the State Board's minimum objective of 20 hours. This figure is lower than the classroom standard because of the specialized use of various laboratories and the need for set-up and take-down time before and after the scheduled class period. These same figures for the seven institutions and the totals have been illustrated graphically on Figure 7 and Figure 8, which follow.

FIGURE 7
OREGON STATE SYSTEM OF HIGHER EDUCATION
(7 Institutions - EOC, OCE, OSU, SOC, UO, PSU, & OTI)
Laboratories

Average Hours of Scheduled Occupancy
Per Week - Fall Term 1968

Institution



Average hours in regularly
scheduled laboratories
(8 a.m. - 10 p.m. & Saturday)

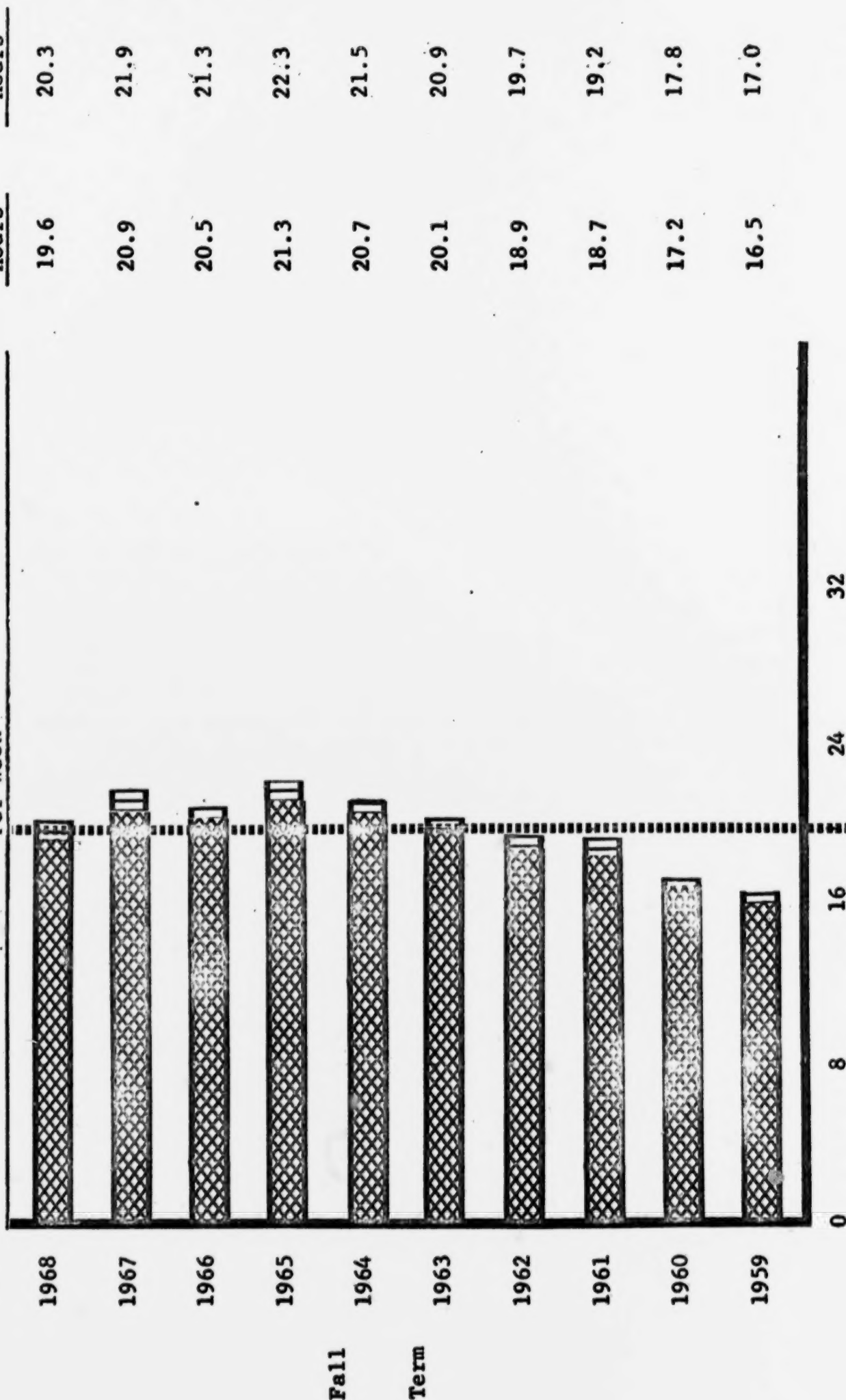
Additional hours scheduled
by the Division of
Continuing Education

Scale: 1 inch = 8 hours

On Figure 7, the average hours of scheduled occupancy of laboratories vary from 17.8 at Oregon State University to 27.2 at Oregon Technical Institute with a mean of 21.3 hours and a weighted mean of 19.6 hours. The total including DCE hours for the seven institutions varies from 18.0 at Eastern Oregon College and Oregon State University to 28.8 at Oregon Technical Institute with a mean of 21.9 hours and a weighted mean of 20.3 hours.

FIGURE 8
OREGON STATE SYSTEM OF HIGHER EDUCATION
(7 Institutions - EOC, OCE, OSU, SOC, UO, PSU, & OTI)
Laboratories

Average Hours of Scheduled Occupancy
Per Week



20 Minimum Objective

Average hours in regularly scheduled laboratories
 (8 a.m. - 10 p.m. & Sat.)

Additional hours scheduled by the Division of Continuing Education

Scale: 1 inch = 8 hours

On Figure 8, the average hours of scheduled occupancy for the seven institutions is illustrated from Fall Term 1959 through Fall Term 1968 and it may be noted that each year since Fall Term 1963 the total hours including DCE exceed the Board's minimum objective of 20 hours of scheduled occupancy.

TABLE XVIII
Data on LABORATORY STUDENT STATION utilization - OREGON STATE SYSTEM OF HIGHER EDUCATION (7-Institutions, EOC, OCE, OSU, SOC, UO, PSC, and OTI)

45-hour week (8 a.m. - 5 p.m.)
Other hours (5 p.m. - 10 p.m. & Saturday)
DCE hours (Sponsored by the Division of Continuing Education)

Hours of Scheduled Occupancy of Laboratory Student Stations Per Week

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968
45-hour week	89,076	95,510	117,055	123,930	129,113	145,584	157,825	153,953	159,600	162,852
Other hours	4,207	6,134	6,618	8,185	9,694	8,342	10,953	11,041	13,034	16,786
Subtotal	93,283	101,644	123,673	132,115	138,807	153,926	168,778	164,994	172,634	179,638
DCE hours	2,606	3,671	3,421	5,569	5,866	5,632	7,311	6,123	6,768	4,843
Total hours	95,889	105,315	127,094	137,684	144,673	159,558	176,089	171,117	179,402	184,481
Student Stations *	8,261	8,414	9,224	9,649	9,232	10,064	9,819	10,300	10,067	10,979
Temporary hours	0	0	216	1,228	1,727	3,759	4,984	7,477	8,577	7,670
Temporary station										

Average Hours of Scheduled Occupancy of Laboratory Student Stations Per Week

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968
45-hour week	10.8	11.4	12.7	12.8	14.0	14.5	16.1	14.9	15.9	14.8
Other hours	0.5	0.7	0.7	0.9	1.0	0.8	1.1	1.1	1.2	1.6
Subtotal	11.3	12.1	13.4	13.7	15.0	15.3	17.2	16.0	17.1	16.4
DCE hours	0.3	0.4	0.4	0.6	0.7	0.6	0.7	0.6	0.7	0.4
Total hours	11.6	12.5	13.8	14.3	15.7	15.9	17.9	16.6	17.8	16.8

* For the years 1959 through 1962 the stations represent the actual number of stations available.
For the years 1963 through 1968 the stations represent the optimum number of stations available.

Table XVIII indicates the average hours of scheduled occupancy of laboratory student stations per week for the seven institutions from Fall Term 1959 through Fall Term 1968 as well as totals including DCE hours. The data have been divided to reflect the 45-hour week, the other hours and DCE hours. The data are illustrated graphically on Figures 9 and 10.

FIGURE 9
OREGON STATE SYSTEM OF HIGHER EDUCATION
(7 Institutions - EOC, OCE, OSU, SOC, UO, PSU, & OTI)
Laboratory Student Stations

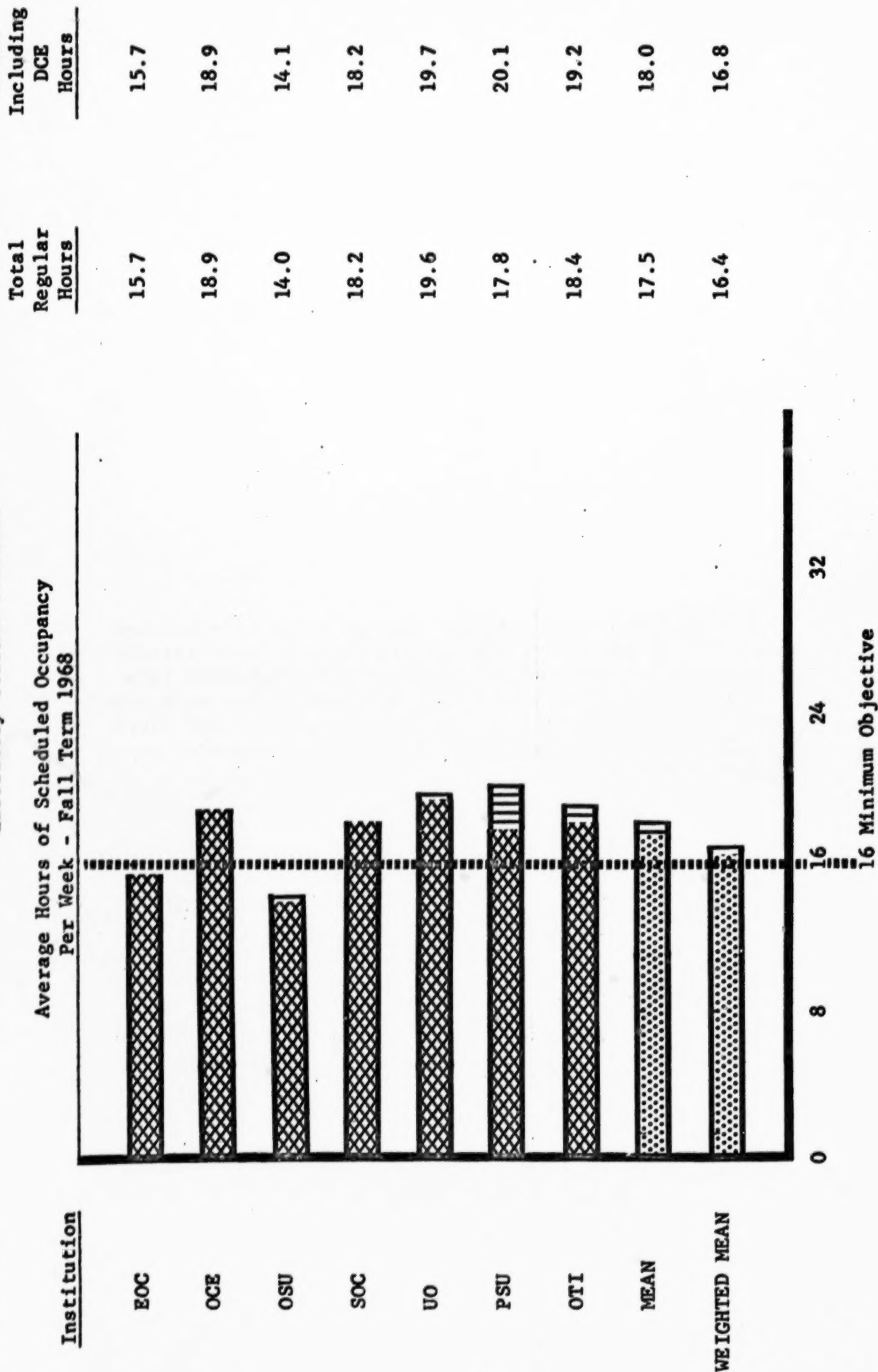
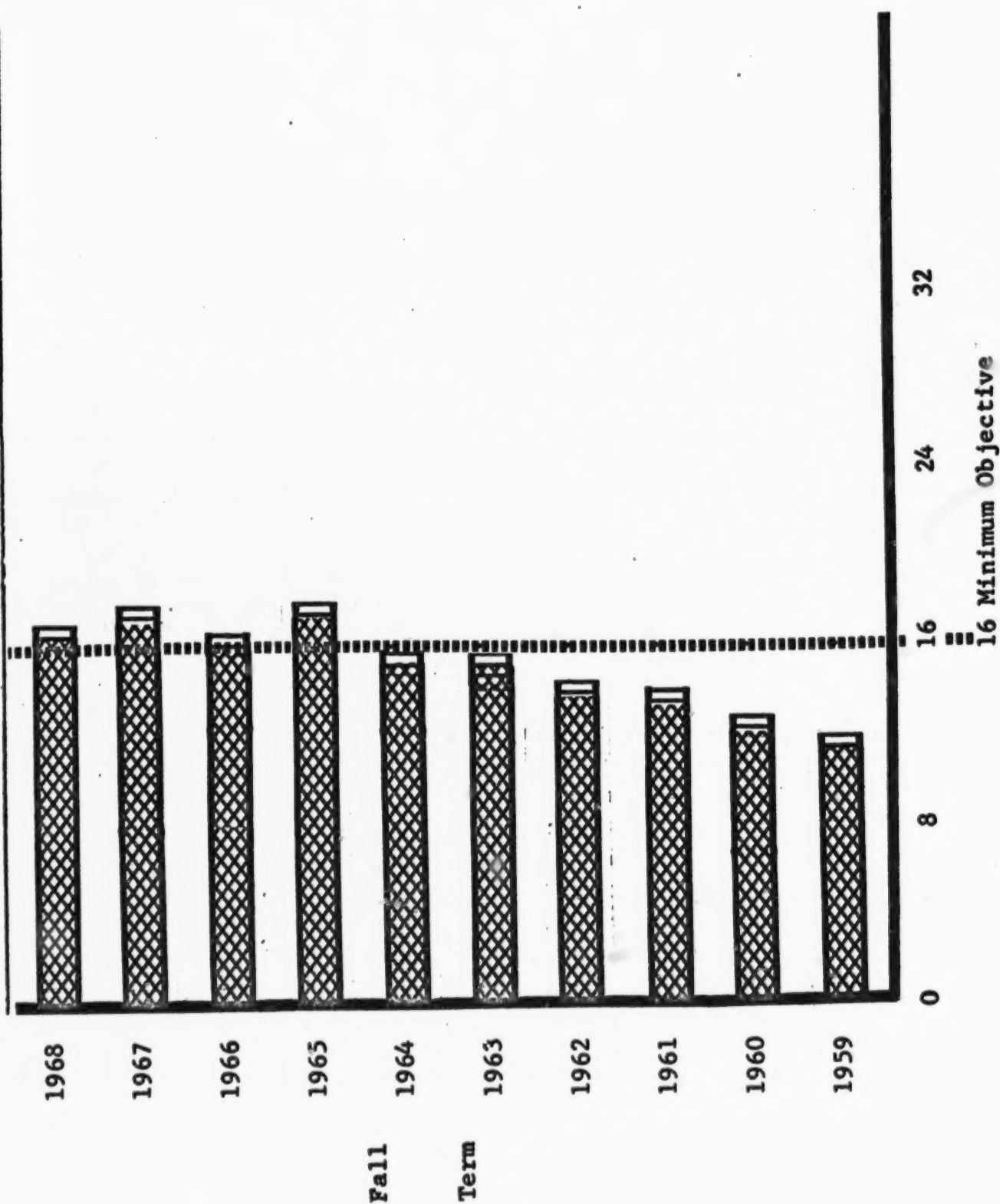


Figure 9 illustrates the average hours of scheduled occupancy of laboratory student station hours per week for Fall Term 1968 for the seven institutions. For the 45-hour week, and other hours, the average hours of scheduled occupancy vary from 14.0 at Oregon State University to 19.6 at the University of Oregon with a mean of 17.5 hours and a weighted mean of 16.4 hours. For all hours, the average hours of scheduled occupancy vary from 14.1 at Oregon State University to 20.1 at Portland State University with a mean of 18 hours and a weighted mean of 16.8 hours. Most of the total hours of schedule occupancy are greater than the Board's minimum objective of 16 hours.

FIGURE 10
OREGON STATE SYSTEM OF HIGHER EDUCATION
(7 Institutions - EOC, OCE, OSU, SOC, UO, PSU, & OTI)
Laboratory Student Stations

Average Hours of Scheduled Occupancy
Per Week



Scale: 1 inch = 8 hours

Average hours in regularly scheduled laboratory student stations (8 a.m. - 10 p.m. & Sat)

Additional hours scheduled by the Division of Continuing Education

Figure 10 illustrates the progress that has been achieved by the seven institutions in scheduling the laboratory student stations. The total hours of scheduled occupancy per week for the seven institutions increased from 11.3 in Fall Term 1959 to 16.4 in Fall Term 1968. In each of the last four Fall Term studies, the Board's standard of 16.0 hours has been either equaled or exceeded. More detailed information on the scheduling of laboratory student stations can be found in Exhibit 5 of Schedule III of the Fall Term 1968 Space Utilization Report for each institution. (See Appendix A.)

TABLE XIX
CAPACITY/ENROLLMENT RATIO
FALL TERM 1968

<u>Insti- tution</u>	<u>NASF of Instructional & Library Space</u>	<u>Total No. of Clock Hrs. of Institution</u>	<u>Derived Capacity/ Enrollment Ratio</u>
EOC	126,123	28,458	4.43
OCE	166,106	51,697	3.21
OSU	1,065,761	263,697	4.04
SOC	225,259	64,539	3.49
UO	792,039	230,096	3.44
PSU	<u>478,846</u>	<u>146,236</u>	3.27
Subtotal	2,854,134	784,723	
Mean			3.64
Weighted Mean			3.64
OTI	<u>172,135</u>	<u>30,644</u>	5.62
Total	<u>3,026,269</u>	<u>815,367</u>	
Mean			3.93
Weighted Mean			3.71

The capacity/enrollment ratio is gaining recognition nationally as a measure of the utilization of academic facilities. It is included as a part of the data requested on applications for federal grant assistance under the provisions of the Higher Education Facilities Act of 1963, as amended.

Although the capacity/enrollment ratio has proven useful, it has certain limitations. Some of these are as follows: (1) no provision is made for level of the student; (2) no provision is made for program characteristics; (3) no provision is made for non-credit instruction; and (4) no provision is made for activity of a non-instructional nature.

The capacity/enrollment ratio is defined as the ratio of assignable square feet of instructional and library facilities to the student clock-hour enrollment.

Assignable square feet of instructional and library facilities includes all rooms or groups of rooms used regularly for instruction of students, for faculty offices, or for library purposes. A room intended and equipped for any of the purposes listed should be counted in the appropriate category, regardless of the building in which it is located. Instructional and library facilities are subdivided into the following categories: (1) general classrooms; (2) teaching laboratories; (3) indoor physical education facilities; (4) service areas for those spaces; (5) library facilities; and (6) faculty offices.

Total number of student clock hours includes clock-hour data for all resident undergraduate and graduate students (i.e., all students taking residence credit, irrespective of the time of day or work load of the student) at the institution. Clock-hour data for students enrolled only in short courses, conferences, correspondence, off campus extension, or enrollees listed as class auditors are not included.

The capacity/enrollment ratio indicated in Table XIX ranges from 3.21 at Oregon College of Education to 5.62 at Oregon Technical Institute. The six institutions have a mean and a weighted mean of 3.64. For the seven institutions, the mean capacity/enrollment ratio is 3.93, whereas the weighted mean is 3.71.

SECTION III
OFFICE UTILIZATION

An Office Space Utilization Study is undertaken each year to make an analysis of the office spaces and office stations. This analysis is conducted in two stages. First, the assignment of office spaces and office stations and the area of office spaces are analyzed. Second, an analysis is made to determine which office spaces and office stations are in temporary or obsolete buildings or in interim locations.

The following definitions pertaining to office spaces have been taken from the OSSHE Physical Facilities Inventory Manual with the accompanying code numbers:

Offices - A room or suite of rooms with office-type equipment that is assigned to one or more persons primarily for the performance of administrative, clerical, or faculty duties other than the meeting of classes.

310 Administrative Offices:

Definition: A room or suite of rooms used by administrative personnel for the performance of administrative duties.

320 Faculty Office:

Definition: A room assigned to a faculty member for the performance of duties other than the meeting of classes.

330 Staff Office:

Definition: An office used by staff personnel in the performance of their regularly assigned duties.

350 Graduate Student-Study-Office:

Definition: An office or portion of an office used by a graduate student (non-employed).

TABLE XX

SUMMARY OF TOTAL OFFICE SPACES, INCLUDING CONFERENCE
ROOMS, RECEPTION, WAITING, FILES AND STORAGE AREAS
FALL TERM 1968

<u>Institution</u>	<u>Total NASF Office Space</u>	<u>Staff FTE Total *</u>	<u>NASF per Staff FTE</u>
EOC	22,322	130.00	171.7
OCE	46,688	324.72	143.8
OSU	407,339	2,353.43	173.0
SOC	50,751	327.91	154.8
UO	336,566	1,917.51	175.5
PSU	<u>107,263</u>	<u>914.57</u>	117.2
Subtotal	970,929	5,968.14	
Mean			156.0
Weighted Mean			162.6
UODS	14,792	137.65	107.4
UOMS	131,728	741.30	177.7
OTI	18,771	177.71	105.6
DCE	<u>20,847</u>	<u>101.63</u>	205.1
Total	<u>1,157,067</u>	<u>7,126.43</u>	
Mean			153.2
Weighted Mean			162.3

* Including Work/Study Students

Office space is an extremely significant part of the space needs of colleges and universities. Table XX gives a summary of total office space (including conference rooms, reception-waiting, file and active storage space), the number of FTE occupants requiring office space, and the NASF (Net Assignable Square Feet) per occupant. The information is provided for each of the nine institutions as well as for the Division of Continuing Education, Portland. Data relating to total NASF are taken from Table XII. Data relating to staff FTE are taken from the Office Space Utilization Study - Schedule I - on file in the Board's Facilities Planning office.

TABLE XXI
SUMMARY OF OFFICE SPACE
FALL TERM 1968

Insti- tution	Total NASF Faculty Staff Office Space	Staff FTE			No. of Office Stations	NASF per Station	NASF for FTE
		Academic	Non- Academic	Total			
EOC	14,256	97.50	32.50	130.00	136	104.8	109.7
OCE	33,666	224.27	100.45	324.72	339	99.3	103.7
OSU	319,244	1,482.36	871.07	2,353.43	2,776	115.0	135.6
SOC	34,766	220.61	107.30	327.91	340	102.2	106.0
UO	271,356	1,286.40	631.11	1,917.51	3,119	87.0	141.5
PSU	<u>105,963</u>	<u>578.43</u>	<u>336.14</u>	<u>914.57</u>	<u>1,060</u>	100.0	115.9
Sub- total	779,251	3,889.57	2,078.57	5,968.14	7,770		
Mean						101.4	118.7
Weighted Mean						100.3	130.6
UODS	11,034	86.40	51.25	137.65	120	92.0	80.2
UOMS	72,088	301.50	439.80	741.30	791	91.1	97.2
OTI	14,732	117.76	59.95	177.71	173	85.2	82.9
DCE	<u>11,946</u>	<u>46.00</u>	<u>55.63</u>	<u>101.63</u>	<u>106</u>	112.7	117.5
Total	<u>889,051</u>	<u>4,441.23</u>	<u>2,685.20</u>	<u>7,126.43</u>	<u>8,960</u>		
Mean						98.9	109.0
Weighted Mean						99.2	124.8

*Including Work/Study Students

Table XXI summarizes the total NASF (Net Assignable Square Feet) of faculty and staff office space, staff FTE, number of office stations, and NASF per station and FTE. The source of the data for Table XXI was the Office Space Utilization Study. Note that offices for the Division of Continuing Education at Portland are included in the analyses.

Office stations average about 100 square feet. When considering that administrative office space and office space used for research are included in the analysis, such an average falls well below the area contemplated in the Board's guidelines. The figures of 130.8 NASF/FTE for six institutions and 124.8 NASF/FTE for the System including DCE fall below planning figures used by many states (between 135 square feet/FTE and 140 square feet/FTE).

SECTION IV

LIBRARIES

Library facilities of the state institutions of higher education in Oregon are coordinated through a Director of Libraries who is a member of the staff of Centralized Activities.

The collections at the several institutions are developed to meet special needs on each campus; but the book stock of the libraries, as property of the State, circulates fully to permit the fullest use of books.

Figures in the 1967-68 Biennial Report of the Oregon State System of Higher Education indicate that the over two million volumes of books and bound periodicals are valued at approximately \$10.8 million (representing purchase price only).

Definitions as developed and used by all the institutions in maintaining a physical inventory of libraries appear on the following pages along with analyses of space and volumes held. The State System has a uniform policy for reporting statistics of holdings, use and evaluations as indicated by "A Statistics Manual for the Oregon State System of Higher Education Libraries" prepared by the Office of the Director of Libraries.

LIBRARIES AND MUSEUMS

A room or group of rooms used for the collection, storage, circulation, and use of books, periodicals, manuscripts, and other reading or reference materials or any room used for display of special collections, such as historical documents, mineral samples, stuffed animals, etc.

410 Reading Room:

Definition: A room or area used for independent study and reading with or without shelves around the wall but excluding multiple rows of shelves extending into the room. It may include provision for incidental or secondary storage, circulation and use of books, documents, and other reference materials. Included in this category are general reading and study rooms, periodical reading rooms, typing rooms and microfilm reading rooms. Also included are the prorated spaces occupied by study stations located within open stacks. This classification will apply to other departments as well as the library.

411 Study:

Definition: A small room designed for one or two individuals located near the library stacks. Studies are assigned for a specified period of time to faculty members or graduate students.

412 Group Study Room:

Definition: A room equipped with tables and chairs or desks and chairs, set aside for the use of a group of students for study and informal discussion. The room is also scheduled on an appointment basis when needed for classes which hold an occasional meeting in the Library to make use of Library materials.

413 Listening Room:

Definition: A room furnished with audio equipment for individual listening.

414 Studio, Audio-Visual:

Definition: A room scheduled by appointment, furnished with classroom-type seating, and providing loud speakers and playback equipment for group listening of recorded material and/or projection equipment for viewing of films.

430 Books:

Definition: A room (or prorated portion of a room) containing multiple rows of shelving used to provide the orderly collection of books.

431 Non-Book Materials:

Definition: A room (or prorated portion of a room) containing shelving or other storage facilities used to provide the orderly collection of non-book materials.

440 Service Desk Areas:

Definition: A room (or prorated portion of a room) staffed by library personnel for the purpose of issuing books and other library materials or providing information to students and staff.

441 Card Catalogue Areas:

Definition: A room (or prorated portion of a room) for the use of students and staff which provides a means of access to books and other library materials.

TABLE XXII
TOTAL LIBRARY SPACE
FALL TERM 1968

<u>Institution</u>	<u>Fall Term FTE</u>	<u>Total NASF of Library Space</u>	<u>NASF of Library Space per FTE Student</u>	<u>Percent of Nonresi- dential Space Assigned to Library</u>
EOC	1,530	23,259	15.2	13.1
OCE	3,116	24,553	7.9	9.9
OSU	14,441	101,835	7.1	5.3*
SOC	3,741	41,064	11.0	14.6
UO	13,763	210,032	15.3	15.7
PSU	<u>8,999</u>	<u>107,489</u>	11.9	16.2#
Subtotal	45,590	508,232		
Mean			11.4	12.5
Weighted Mean			11.1	11.0
UODS	398	3,420	8.6	4.0
UOMS	866	23,922	27.6	4.6#
OTI	<u>1,283</u>	<u>7,949</u>	6.2	3.9
Total	<u>48,137</u>	<u>543,523</u>		
Mean			12.3	9.7
Weighted Mean			11.3	10.0

* Base excludes NASF assigned to Federal Cooperative Extension, Agricultural Experiment Stations, or Forest Research Laboratory.

Base excludes parking structures.

Table XXII indicates the total NASF (Net Assignable Square Feet) area assigned to library function, the NASF of library space per Fall Term 1968 FTE student and the percentage of space assigned to library function as it relates to the total assignable nonresidential space in each institution. Mean values are shown for the entire State System.

The amount of NASF of library space per FTE student ranges from 6.2 at Oregon Technical Institute to 27.6 at the University of Oregon Medical School. The mean and weighted mean for the six institutions are 11.4 NASF/FTE and 11.1 NASF/FTE, respectively. Mean and weighted mean values for the nine institutions are slightly higher.

The percent of nonresidential space assigned to library functions ranges from 3.9% at Oregon Technical Institute to 16.2% at Portland State University. The weighted mean of library space for the State System is 10%.

TABLE XXIII
SUMMARY OF LIBRARY VOLUMES HELD
FALL TERM 1968

<u>Institution</u>	<u>Fall Term FTE 1968</u>	<u>No. of Volumes*</u>	<u>Volumes per Fall Term FTE</u>	<u>NASF Available for Volumes</u>	<u>NASF per Volume</u>
EOC	1,530	66,828	43.7	4,993	0.08
OCE	3,116	99,974	32.1	11,090	0.11
OSU	14,441	564,295	39.1	41,175	0.07
SOC	3,741	79,157	21.2	10,340	0.13
UO	13,763	1,099,000	79.9	74,589	0.07
PSU	<u>8,999</u>	<u>240,211</u>	26.7	<u>28,193</u>	0.12
Subtotal	45,590	2,149,465		170,380	
Mean			40.5		0.10
Weighted Mean			47.1		0.08
UODS	398	20,794	52.2	1,600	0.08
UOMS	866	133,621**	154.3	10,891	0.08
OTI	<u>1,283</u>	<u>23,716</u>	18.5	<u>1,443</u>	0.06
Total	<u>48,137</u>	<u>2,327,596</u>		<u>184,314</u>	
Mean			52.0		0.09
Weighted Mean			48.4		0.08

*Includes some government documents.

**Includes approximately 20,000 equivalent unbound volumes.

Table XXIII presents a summary of the library volumes held at each institution, the number of volumes per Fall Term FTE and the NASF per volume. It should be emphasized that the number of volumes includes periodicals, government documents, etc. It is hoped that at some future date, the number of bound volumes and the space to hold the same may be identified. The number of volumes per FTE student ranges from 18.5 at Oregon Technical Institute to 154.3 at the University of Oregon Medical School. The mean and weighted mean for the six institutions are 40.5 and 47.1 volumes, respectively. The mean and weighted mean values for the entire State System are slightly higher.

The NASF per volume ranges from 0.06 at Oregon Technical Institute to 0.13 at Southern Oregon College. The weighted mean for six institutions and the System is 0.08 NASF per volume. Most of the literature relating to library planning has advocated between 0.067 and 0.10 assignable square feet per bound volume. The California Restudy permits an allowance of 0.125 NASF per volume for bound and unbound collections.

TABLE XXIV

SUMMARY OF LIBRARY SERVICES AND ADMINISTRATION
AREA - FALL TERM 1968

<u>Insti- tution</u>	<u>Fall Term 1968 FTE Students</u>	<u>Budgeted FTE Library Staff*</u>	<u>Assigned to Library Services & Administration</u>	<u>NASF of Library Service & Admin. per FTE Student</u>	<u>NASF of Library Service and Admin. Budgeted per FTE Staff</u>
EOC	1,530	12.15	5,382	3.5	443.0
OCE	3,116	18.00	5,086	1.6	282.6
OSU	14,441	82.30	19,587	1.4	238.0
SOC	3,741	22.84	7,497	2.0	328.2
UO	13,763	121.54	30,782	2.2	253.3
PSU	<u>8,999</u>	<u>93.85</u>	<u>27,616</u>	3.1	294.3
Subtotal	45,590	350.68	95,950		
Mean				2.3	306.6
Weighted Mean				2.1	273.6
UODS	398	2.50	688	1.7	275.2
UOMS	866	12.75	6,425	7.4	503.9
OTI	<u>1,283</u>	<u>5.50</u>	<u>2,833</u>	2.2	515.1
Total	<u>48,137</u>	<u>371.43</u>	<u>105,896</u>		
Mean				2.8	348.2
Weighted Mean				2.2	285.1

* Excluding student helpers

Table XXIV presents a summary of library service and administration areas at each institution and analyzes this in relation to Fall Term FTE and NASF (Net Assignable Square Feet) per FTE staff. The latter category of FTE was obtained from the Budget Officer's budget figures for 1968-69. These figures do not take into account the number of student helpers. Whereas the budget notes the dollar amount allotted for such help, it does not relate it to FTE.

The amount of library service and administration space per Fall Term FTE student ranges from 1.4 NASF at Oregon State University to 7.4 at the University of Oregon Medical School. For the six institutions, the mean value is 2.3 NASF/FTE and the weighted mean is 2.1 NASF/FTE, whereas the State System mean is 2.8 NASF/FTE and the weighted mean is 2.2 NASF/FTE.

The amount of library service and administration space per FTE staff ranges from 238.0 NASF/FTE at Oregon State University to 515.1 at Oregon Technical Institute. For the six institutions, the mean value is 306.6 NASF/FTE and the weighted mean is 273.6, whereas the State System mean is 348.2 NASF/FTE and the weighted mean is 285.1 NASF/FTE staff. California standards permit a student-reference staff ratio of 300 NASF/FTE staff.

TABLE XXV

SUMMARY
OF LIBRARY READING AND STUDY SPACE
FALL TERM 1968

<u>Institution</u>	<u>Fall Term 1968 FTE Students</u>	<u>NASF Reading Space</u>	<u>Seating Capacity</u>	<u>Percent Reading Seating to Enrollment</u>	<u>NASF Reading- Study per FTE Student</u>	<u>NASF per Reading Station</u>
EOC	1,530	8,567	343	22.4	5.60	25.0
OCE	3,116	8,377	374	12.0	2.69	22.4
OSU	14,441	41,073	1,646	11.4	2.84	25.0
SOC	3,741	23,227	963	25.7	6.21	24.1
UO	13,763	76,672	2,823	20.5	5.57	27.2
PSU	<u>8,999</u>	<u>51,680</u>	<u>2,067</u>	23.0	5.74	25.0
Subtotal	45,590	209,596	8,216			
Mean				19.2	4.78	24.8
Weighted Mean				18.2	4.60	25.5
UODS	398	1,132	70	17.6	2.84	16.2
UOMS	866	6,606	261	30.1	7.63	25.3
OTI	<u>1,283</u>	<u>3,673</u>	<u>132</u>	10.2	2.86	27.8
Total	<u>48,137</u>	<u>221,007</u>	<u>8,679</u>			
Mean				18.0	4.66	24.2
Weighted Mean				19.2	4.59	25.5

Table XXV reflects data relating to library reading rooms and study areas presented as NASF (Net Assignable Square Feet) for reading space and seating capacity.

The percent of reader seating to Fall Term FTE enrollment varies from 10.2% at Oregon Technical Institute to 30.1% at the University of Oregon Medical School. It may be noted that the average library seating capacity is equal to less than 20% of the FTE enrollment, compared with the Board's building planning standard of providing seating for approximately 25 percent of the student body at any one time.

The NASF of reading and study area per FTE student ranges from 2.69 NASF/FTE at Oregon College of Education to 7.63 at the University of Oregon Medical School. The mean for the six institutions is 4.78 NASF/FTE and the weighted mean is 4.60 NASF/FTE student. Slightly smaller figures may be noted for the State System mean and weighted mean.

The NASF per reading station for each institution (with the exception of the University of Oregon Dental School) is close to the figure of 25 NASF used nationally in planning reader station space.

SECTION V

USE OF OTHER SPACE

Analyses of other spaces (research, physical education, and student union) appear on the following pages.

A Research Space Utilization Study is prepared each year and copies of the report for each institution are on file in the Facilities Planning office. The Summary of Research Space incorporated within Table XXVI and the accompanying narrative are based upon these reports for the Fall Term 1968.

Data for physical education are taken from studies entitled "Projected Physical Education Facility Requirements," prepared jointly by institutional personnel and the Board's staff.

Data for student unions are taken from the physical facilities inventory, classified under principal use codes 51 (Student Union), 52 (Student Activities) and 53 (Food Service).

TABLE XXVI
SUMMARY OF RESEARCH SPACE

<u>Institution</u>	<u>Net Assignable Sq.Ft. Areas</u>
Eastern Oregon College	1,355
Oregon College of Education	10,360
Oregon State University	697,090
University of Oregon	138,015
Portland State University	28,855
University of Oregon Dental School	12,161
University of Oregon Medical School	110,116
Oregon Technical Institute	<u>276</u>
Total Research Space	<u>998,228</u>

The research activity at Eastern Oregon College is carried out by the Chemistry, Physics and Biology Departments. The research is conducted by faculty members in connection with various courses that are taught.

Research space at Oregon College of Education is assigned to the Teaching Research Division, located on the campus, organized and operated as a separate administrative unit of the Oregon State Board of Higher Education. The purpose of the Division is to discover effective solutions to selected basic problems in teaching, with a special focus on educational technology.

Research at Oregon State University strongly supports the instructional program through departmental research from institutional funds, federally sponsored research involving grants for specific projects, and other research sponsored from a variety of sources including private industry. The research fulfills the institutional responsibility of public service and the majority is carried on by the Agriculture Experiment Station, the Federal Cooperative Extension, and the U. S. Department of Agriculture which have personnel located on campus and hold joint appointments on the Oregon State University staff.

At the University of Oregon, research is basically synonymous with graduate instruction. The research program is an integral part of the graduate program and supportive to the undergraduate program. Research facilities are significant in attracting high caliber faculty to the University of Oregon. Each of the departments and schools, therefore, requires research facilities as part of its instructional program and the character of the research is determined by the nature of the department.

Portland State University's research program is carried on principally by the Applied Science, Biology, Chemistry and Physics Departments. The increase in graduate degree programs will require increased research in various disciplines.

Research at Oregon Technical Institute is currently being conducted in one research laboratory. This is a departmental research laboratory used by Medical Laboratory Technology with research projects being conducted by faculty members and advanced students in several areas of biological and medical sciences and pollution control.

Research is an integral part of the educational program of the University of Oregon Dental School. This program will continue to expand due to the increasing demand for health services. Currently, there are about 35 active research projects supported by funds from private donors, industry, foundations and the federal government.

The research program at the University of Oregon Medical School has two basic areas--those of research and research training. Presently, the Medical School has approximately 300 separate research or research training programs or projects. These programs or projects are sponsored by federal granting agencies and by voluntary health associations and foundations throughout the country.

TABLE XXVII
SUMMARY OF INDOOR PHYSICAL EDUCATION AREAS

<u>Institution</u>	<u>NASF of P.E. Teaching Stations</u>	<u>3-Term FTE Enrollment</u>	<u>NASF per Student (3-Term FTE)</u>	<u>Percent of Total NASF Assigned to Physical Education</u>	<u>Average Hrs. Teaching Stations Use Per Week</u>
EOC	19,774	1,452	13.6	7.5	34.7
OCE	16,503	3,020	5.5	4.6	40.3
OSU	71,237	13,761	5.2	2.4	37.2
SOC	32,498	2,206	14.7	7.1	35.5
UO	72,361	13,088	5.5	4.0	44.6
PSU	56,280	8,364	6.7	6.3	33.2
OTI	<u>22,055</u>	<u>1,174</u>	18.8	7.6	12.4
Totals	<u>290,708</u>	<u>43,065</u>			
Mean			10.0	4.6	32.5
Weighted Mean			6.8	4.1	37.8

Table XXVII summarizes NASF (Net Assignable Square Feet) of physical education teaching stations. These areas include gymnasiums, and swimming pools plus service areas devoted exclusively to such teaching stations. However, areas devoted to elementary (laboratory school) gym use only, bleachers and service areas such as general storage, shower, toilets, steam drying rooms, etc., are excluded.

The three term FTE is used because the highest utilization of indoor facilities occurs normally during winter term due to inclement weather.

Column 4 relates the NASF of the physical education teaching stations to the total NASF available at each institution. The latter figures were indicated in Tables XI and XII. The percent assigned to physical education teaching stations varies from 2.4% at Oregon State University to 7.6% at Oregon Technical Institute. On the average, about 4% of all net assignable areas at the seven institutions is assigned to indoor physical education teaching stations.

The average hours of teaching station use per week vary from 12.4 at Oregon Technical Institute to 44.6 at the University of Oregon with a mean of 32.5 and weighted mean of 37.8. The Board's minimum objective is 30 hours per week. Note that all but one of the institutions substantially exceeds this objective.

TABLE XXVIII
SUMMARY OF STUDENT UNION SPACE
FALL TERM 1968

<u>Institution</u>	<u>NASF Area</u>	<u>FTE Enrollment</u>	<u>NASF/ FTE</u>
EOC	12,138	1,530	7.9
OCE	18,591	3,116	6.0
OSU	82,327	14,441	5.7
SOC	22,831	3,741	6.1
UO	57,229	13,763	4.2
PSU	76,653	8,999	8.5
OTI	<u>5,099</u>	<u>1,283</u>	4.0
Total	<u>274,868</u>	<u>46,873</u>	
Mean			6.1
Weighted Mean			5.9

Table XXVIII summarizes the NASF (Net Assignable Square Feet) allocated to the student union including spaces devoted to student meeting and activity rooms, snack bars, dining areas, etc., exclusive of residence hall dining areas.

The NASF/FTE student varies from 4.0 at Oregon Technical Institute to 8.5 at Portland State University. For the seven institutions, the mean is 6.1 NASF per full-time equivalent student and the weighted mean is 5.9 NASF/FTE student. The larger area for student union functions at Portland State University may be explained because it is a commuter-type institution.

These averages appear low in relation to planning figures used by some other institutions for student service spaces (approximately 8.25 NASF for each FTE student, except for commuter-type institutions where an additional one (1) NASF per FTE student is allowed for lounges and areas used for vending machines.)

SECTION VI

RESIDENCE HALLS AND MARRIED STUDENT HOUSING

Each year studies of the rated capacities and occupancies of residence halls and married student housing are prepared for the several institutions within the State System. Data for these studies are analyzed jointly by institutional personnel and the Facilities Planning office and later presented to the Oregon State Board of Higher Education.

This section of the Survey presents data on: (a) comparisons of rated capacities and occupancies of residence halls, (b) rated capacities and occupancies by sex, by institution, and by student classification (graduate, senior, etc.), and (c) married student housing. In addition, data reflecting gross areas of institutionally-owned residence halls (and cooperatives at Oregon State University) and NASF (Net Assignable Square Feet) of sleeping-study rooms are presented. These latter data are taken from the physical facilities inventory.

TABLE XXIX

COMPARISON OF RESIDENCE HALL CAPACITIES AND OCCUPANCIES AT
CLOSE OF SECOND WEEK OF CLASSES DURING FALL TERM 1968

<u>Institution</u>	<u>Rated Capacity</u>	<u>Occupancy</u>	<u>% Occupancy</u>
Eastern Oregon College	631	601	95.2
Oregon College of Education	904	935	103.4
Oregon State University	4,498*	4,495*	99.9
Southern Oregon College	1,323	1,288	97.4
University of Oregon	3,143	3,157	100.4
Oregon Technical Institute	<u>558</u>	<u>502</u>	90.0
Subtotals	11,057	10,978	99.3
University of Oregon Dental and Medical Schools	<u>201</u>	<u>186</u>	92.5
Totals	<u>11,258</u>	<u>11,164</u>	99.2

* Includes 378 student capacity and 380 student occupancy of institutionally-owned cooperative houses

Table XXIX summarizes the residence hall capacities and occupancies available at State System institutions during Fall Term 1968, together with percentages of occupancy. The data were obtained from reports prepared by the institutions and summarized in the October 1968 meeting. For the State System as a whole, the number of residence hall occupants was 99.2% of the rated capacity.

Including a limited number of accommodations for married students (detailed in subsequent pages), the institutions were providing housing for 12,270 students, or 24.1% of the total of 50,933 students enrolled in the State System during the Fall Term 1968. Fraternities and sororities housed 3,890 students, or 7.6% of the total headcount enrollment. Privately-owned residence halls for single students provided housing for 1,058 students, or 2.1% of the total. The remaining 33,715, or 66.2% lived in private homes, apartments, etc.

TABLE XXX
SUMMARY OF RESIDENCE HALL AREAS
FALL TERM 1968

<u>Institution</u>	<u>Gross Sq. Ft. Areas</u>	<u>Student Rated Capacity</u>	<u>Gross Area per Student (Rated Capacity)</u>
EOC	127,419	631	201.9
OCE	194,134*	904	214.8
OSU	1,120,591	4,498	249.1
SOC	334,560	1,323	252.8
UO	749,289	3,143	238.4
OTI	119,137	558	213.5
UOMS-UODS	<u>43,105**</u>	<u>201</u>	214.5
Total	<u>2,688,235</u>	<u>11,258</u>	
Mean			226.4
Weighted Mean			238.8

*Includes an estimated 16,000 gross square feet of dining facilities assigned to residence hall dining in the Student Center-Commons.

**Excludes dining hall accommodations.

Table XXX summarizes the gross square foot areas assigned to residence halls (and institutionally-owned cooperatives at Oregon State University), the rated capacity and gross area per student (rated capacity). The gross area per student varies from 201.9 at Eastern Oregon College to 252.8 at Southern Oregon College with a mean of 226.4 and a weighted mean of 238.8. Some of the institutions fall within the range adopted by the Board for planning residence halls. "For resident halls including kitchen and dining areas either within the dormitory building or an allocable area in a different building, the gross area per student, based upon the outside dimensions of a building, would, in general, range between 215-235 square feet."

TABLE XXXI
ANALYSIS OF SLEEPING-STUDY ROOMS IN RESIDENCE HALLS

<u>Institution</u>	<u>NASF of Sleeping- Study Rooms</u>	<u>Rated Capacity</u>	<u>NASF per Student (Rated Capacity)</u>
EOC	51,890	631	82.2
OCE	70,460	904	77.9
OSU	400,665*	4,498*	89.1
SOC	95,371**	1,131*	84.3
UO	225,751	3,143	71.8
OTI	48,445	558	86.8
UOMS-DS	<u>18,731</u>	<u>201</u>	93.2
Total	<u>911,313</u>	<u>11,066</u>	
Mean			83.6
Weighted Mean			82.4

*Includes institutionally-owned cooperatives.

**Excludes Greensprings A and B with 103 and 89 spaces, respectively.

Table XXXI summarizes NASF (Net Assignable Square Feet) of sleeping-study rooms, the rated capacity and NASF per student (rated capacity). Data reflecting NASF of sleeping-study rooms are taken from the physical facilities inventory. The NASF per student varies from 71.8 at the University of Oregon to 93.2 at the University of Oregon Medical School with a mean of 83.6 and a weighted mean of 82.4. These figures generally fall within the Board's planning standards for rooms in residence halls--"For a typical two-student bedroom...the net inside room area would be about 140-180 square feet."

TABLE XXXII
ANALYSIS OF RATED CAPACITIES AND OCCUPANCIES OF STUDENT RESIDENCE HALLS
FALL TERM 1968

<u>Institution</u>	<u>Graduates</u>	<u>Seniors</u>	<u>Juniors</u>	<u>Sophomores</u>	<u>Freshmen</u>	<u>Special or Other</u>	<u>Total Occupancies</u>	<u>Total Rated Capacity</u>
EOC								
Male	1	12	26	63	197	0	299	297
Female	1	14	32	83	172	0	302	334
OCE								
Male	0	9	14	36	200	0	259	251
Female	2	17	50	176	431	0	676	653
OSU								
Male	69	138	262	643	1,120	0	2,232	2,225
Female	20	44	184	651	1,364	0	2,263	2,273
SOC								
Male	1	15	30	127	367	0	540	549
Female	1	11	37	178	506	0	733	756
UO								
Male	85	54	102	227	999	116	1,583	1,572
Female	43	44	91	260	1,001	58	1,497	1,493
OTI								
Male	0	4	33	106	280	0	423	474
Female	0	0	5	27	52	0	84	84
UODS								
Male	2	1	1	1	11	1	17	31
UOMS								
Female	0	0	13	133	24	0	170	170
TOTAL								
Male	158	233	468	1,203	3,174	117	5,353	5,399
Female	67	130	412	1,508	3,550	58	5,725	5,763

Table XXXII analyzes rated capacities and occupancies of student residence halls during Fall Term 1968 by class, by sex and by institution. Of the 11,078 occupants, about three-fifths (60.6%) are freshmen and one-fourth (24.4%) are sophomores. Just over one-half (51.6%) of the occupants are females.

The data reported in Table XXXII were supplied near the end of Fall Term 1968 and therefore minor variations in occupancies will be noted from that reported in earlier tables. In addition, the data exclude 78 spaces assigned to VISTA in Straub Hall at the University of Oregon.

MARRIED STUDENT HOUSING AND
TEMPORARY HOUSING FOR SINGLE STUDENTS

The Oregon State Board of Higher Education recognizes that it is essential for some student housing to be provided if educational opportunity is to be extended to students of all geographic regions in Oregon.¹ A summary analysis of student housing and a summary comparison of dormitory capacities and occupancies were presented to the Board on October 22, 1968, identifying principally the regular residence halls for single students. The rationale of providing housing for single students applies also to the provision of some housing for married students. In addition, however, the Board believes that housing units for married students are needed at the two universities, and, to a lesser extent, at other institutions to encourage the enrollment of those able graduate students who qualify as teaching and research assistants.² The attached exhibits have been prepared in response to the Board's earlier request for an annual report of married student housing and temporary housing for single students.³ The arrangement is similar to the Fall Term 1967 report and identifies the total number of married students (male and female), the number of graduate teaching assistants and research assistants and the number of graduate assistants occupying institutionally-owned housing units.

Data for the Fall Term 1968 study have been obtained from Eastern Oregon College, Oregon College of Education, Oregon State University, Southern Oregon College, and the University of Oregon. No units of married student housing are owned or operated by the other institutions of the State System of Higher Education. The data on married student housing appear in Tables XXXIII, XXXIV, XXXV, XXXVI, and XXXVII. The data relating to temporary housing for single students appear on Table XXXVIII.

¹Report of the Ad Hoc Committee on Student Housing Policies, Oregon State Board of Higher Education, December 12-13, 1966.

²Ibid

³Report of official Board Minutes of the Oregon State Board of Higher Education, January 23-24, 1967, p. 34.

SYNOPSIS

Analysis of institutionally-owned housing units at the five institutions during the Fall Term 1968 indicates the following:

- About one male student out of four is married.

- About one female student out of five is married.

- About four of every five of the occupants in the specific married student housing units are either graduate assistants, research fellows or other graduate students.

- About half of the remaining family housing units, referred to as miscellaneous housing units, are occupied by students. These student occupants are about evenly divided between graduates and undergraduates.

- Of all married students in the five institutions, about one out of nine is living in institutionally-owned housing.

- While male student enrollment in 1968 increased by 1,595 over 1967, the married male student enrollment for the same period increased by 721 students.

- Only 78 single students were being housed in temporary residence facilities in 1968. This represents a decline of 47 students in temporary housing from 1967. In 1966, 193 single students were being housed in temporary residence facilities.

TABLE XXXIII

ANALYSIS OF MARRIED STUDENT ENROLLMENTS AND RENTAL
RATES FOR INSTITUTIONAL HOUSING UNITS

	<u>OSU</u>	<u>UO</u>	<u>OCE</u>	<u>SOC</u>	<u>EOC</u>	<u>TOTALS</u>
1. Total Student Enrollment	14,474	14,858	3,215	4,047	1,682	38,276
2. Male Student Enrollment	9,193	8,862	1,420	2,157	911	22,543
3. Married Male Student Enrollment	2,146	2,652	453	399	272	5,922
4. Percentage of Male Students Married	23.3	29.9	31.9	18.5	29.9	26.3
5. Female Student Enrollment	5,281	5,996	1,795	1,890	771	15,733
6. Married Female Student Enrollment	846	1,150	358	525	239	3,118
7. Percentage of Female Students Married	16.0	19.2	19.9	27.8	31.0	19.8
8. Total Single Student Enrollment	11,482	11,056	2,404	3,123	1,171	29,236
9. Total Married Student Enrollment	2,992	3,802	811	924	511	9,040
10. Percentage of Students Married	20.7	25.6	25.2	22.8	30.4	23.6
11. Rental Rates:						
Minimum	\$42.00	\$36.50	\$39.00	\$31.50	\$40.00	
Maximum	\$200.00	\$150.00	\$50.00	\$135.00	\$105.00	
Typical Housing Units:						
No-Bedroom	\$ -	\$ -	\$39.00	\$ -	\$ -	
1-Bedroom	42.00; 73.00	36.50; 66.00	-	31.50	40.00	
2-Bedroom	48.00; 85.00	42.50; 76.00	45.00	-	45.00; 55.00; 75.00	
3-Bedroom	58.00; 97.00	-	48.00	-	-	

Table XXXIII has been prepared to indicate the total student enrollments at the five institutions which had some units of married student housing available in the Fall Term 1968 and, in addition, statistics concerning male and married male, female and married female student enrollments and typical rental rates for family housing at each institution.

Table XXXIII indicates that approximately 26.3% of the male students enrolled at the five institutions are married. On an institutional basis, the percentage of male students who are married ranges from a low of 18.5% at Southern Oregon College to a high of 31.9% at Oregon College of Education.

Table XXXIII also indicates that approximately 19.8% of the female students enrolled at the five institutions are married. On an institutional basis, the percentage of female students who are married ranges from a low of 16.0% at Oregon State University to a high of 31.0% at Eastern Oregon College.

In accordance with the policies adopted by the Board on December 12-13, 1966,¹ it is expected that, separately for each institution, the rates of charge for student housing shall be such that the income will be sufficient to make each of the three categories of housing--married student, regular residence halls and cooperative living units--self-supporting and self-liquidating. The rental rates for married student housing and miscellaneous properties are to be established by the institutional administration in recognition of this objective.

Table XXXIII indicates the minimum and maximum rates as well as the typical rental rate changes for various types of units available during the Fall Term 1968. Some revisions were made in the rentals prior to the beginning of this academic year. It is possible that further revisions will be required prior to the beginning of the next academic year.

¹Ad Hoc Committee on Student Housing Policies, op. cit.

TABLE XXXIV
ANALYSIS OF OCCUPANCY OF INSTITUTIONALLY-OWNED FAMILY HOUSING UNITS
CONSTRUCTED OR ACQUIRED SPECIFICALLY TO ACCOMMODATE MARRIED STUDENTS

<u>OCCUPANT CLASSIFICATIONS</u>	<u>OSU</u>	<u>UO</u>	<u>OCE</u>	<u>SOC</u>	<u>EOC</u>	<u>TOTALS</u>
1. Graduate assistants and research fellows						
(a) Married male students	80	144	2	0	0	226
(b) Married female students	0	5	4	0	0	9
(c) Subtotal	80	149	6	0	0	235
2. Other graduate students						
(a) Married male students	64	426	0	0	5	495
(b) Married female students	0	22	0	0	0	22
(c) Subtotal	64	448	0	0	5	517
3. Total graduate students	144	597	6	0	5	752
4. Undergraduate students						
(a) Married male students	6	44	19	10	47	126
(b) Married female students	0	8	8	2	5	23
(c) Subtotal	6	52	27	12	52	149
5. Total undergraduate and graduate students	150	649	33	12	57	901
6. Faculty and staff	0	0	0	0	0	0
7. Other occupancies	0	6*	0	0	0	6
8. Vacancies	0	0	9	0	2	11
9. Total of units (Items 1-8)	<u>150</u>	<u>655</u>	<u>42</u>	<u>12</u>	<u>59</u>	<u>918</u>

*Includes one unit being used as a nursery at Amazon Apartments.

Table XXXIV has been prepared to indicate the classifications and numbers of students renting institutionally-owned family housing units, which were constructed or acquired specifically to accommodate married students.

Of the 918 units identified in Table XXXIV, over 800 were located at the two universities.

Of the 901 students who occupied these units, 752 (or 83%) were graduate students. Of these 752 occupants, 235 (or about 32%) were graduate students and research fellows and the remainder of 517 were classified as other graduate students.

TABLE XXXV
ANALYSIS OF OCCUPANCY OF INSTITUTIONALLY-OWNED
MISCELLANEOUS FAMILY HOUSING RENTAL UNITS

<u>OCCUPANT CLASSIFICATIONS</u>	<u>OSU</u>	<u>UO</u>	<u>OCE</u>	<u>SOC</u>	<u>EOC</u>	<u>TOTALS</u>
1. Graduate assistants and research fellows						
(a) Married male students	21	6	0	0	0	27
(b) Married female students	0	1	0	0	0	1
(c) Subtotal	21	7	0	0	0	28
2. Other graduate students						
(a) Married male students	12	37	0	4	1	54
(b) Married female students	0	2	0	0	1	3
(c) Subtotal	12	39	0	4	2	57
3. Total graduate students	33	46	0	4	2	85
4. Undergraduate students						
(a) Married male students	13	13	0	15	6	47
(b) Married female students	0	4	0	6	2	12
(c) Subtotal	13	17	0	21	8	59
(d) Single students	1	0	0	4	0	5
(e) Subtotal	14	17	0	25	8	64
5. Total students (graduate and undergraduate)	47	63	0	29	10	149
6. Faculty and staff	4	9	0	6	8	27
7. Other occupants	13	31*	1	7	7	59
8. Vacancies	1	0	0	4	1	6
9. Total miscellaneous family housing rental units (Items 1-8)	<u>65</u>	<u>103</u>	<u>1</u>	<u>46</u>	<u>26</u>	<u>241</u>

*Includes 17 units used temporarily for offices.

Table XXXV. indicates that there were 241 miscellaneous family housing rental units available during the Fall Term 1968. The total of 103 units at the University of Oregon does not include 62 wood-frame World War II surplus apartments on Columbia Street and Agate Street, formerly used as married student housing units, which are now assigned for office use.

Of the 149 units rented to students, over half (85 units) were occupied by graduate students, including 28 (or about 19%) who were classified as graduate assistants or research fellows.

TABLE XXXVI

ANALYSIS OF MALE AND FEMALE STUDENT ENROLLMENTS AND MARRIED STUDENT HOUSING

	Male Student Enrollment			%	Female Student Enrollment			%	Married Male & Female Students Living in Institutionally-Owned Units	
	Single	Married	Total		Single	Married	Total		Married	Number
OREGON STATE UNIVERSITY										
Graduate Assistants, Research Assistants, etc.	230	339	569	59.6	60	30	90	33.3	101	27.4
Other Graduates	334	678	1,012	67.0	148	154	302	51.0	76	9.1
Seniors	1,293	514	1,807	28.4	679	271	950	28.5	8	1.0
Juniors	1,453	321	1,774	18.1	780	186	966	19.3	8	1.6
Sophomores	1,786	192	1,978	9.7	1,233	114	1,347	8.5	3	1.0
Freshmen	1,940	64	2,004	3.2	1,525	57	1,582	3.6	0	0.0
Special	11	38	49	77.6	10	34	44	77.3	0	0.0
Totals	7,047	2,146	9,193	23.3	4,435	846	5,281	16.0	196	6.6
UNIVERSITY OF OREGON										
Graduate Assistants, Research Assistants, etc.	242	418	660	63.3	64	63	127	49.6	156	32.4
Other Graduates	813	1,428	2,241	63.7	494	498	992	50.2	487	25.3
Seniors	930	351	1,281	27.0	603	205	808	25.0	44	7.9
Juniors	1,138	253	1,391	18.0	838	201	1,039	19.0	12	2.6
Sophomores	1,655	173	1,828	9.0	1,490	141	1,631	9.0	11	3.5
Freshmen	1,266	29	1,295	2.0	1,277	42	1,319	3.0	2	0.3
Special	166	0	166	0.0	80	0	80	0.0	0	0.0
Totals	6,210	2,652	8,862	29.9	4,846	1,150	5,996	19.0	712	18.7
OREGON COLLEGE OF EDUCATION										
Graduate Assistants, Research Assistants, etc.	0	2	2	100.0	0	0	0	0.0	0	0.0
Other Graduates	23	137	160	85.6	31	73	104	70.2	6	2.9
Seniors	112	128	240	53.3	195	100	295	33.9	10	4.4
Juniors	180	94	274	34.3	267	74	341	21.7	10	6.0
Sophomores	262	60	322	18.6	407	60	467	12.8	11	9.2
Freshmen	390	31	421	7.4	537	47	584	8.0	1	1.3
Special	0	1	1	100.0	0	4	4	100.0	0	0.0
Totals	967	453	1,420	31.9	1,437	358	1,795	19.9	38	4.7
SOUTHERN OREGON COLLEGE										
Graduate Assistants, Research Assistants, etc.	0	0	0	0.0	0	0	0	0.0	0	0.0
Other Graduates	31	80	111	72.1	25	79	104	76.0	5	3.1
Seniors	225	47	272	17.3	98	96	194	49.5	12	8.4
Juniors	305	53	358	14.8	148	92	240	38.3	14	9.7
Sophomores	431	65	496	13.0	326	97	423	22.9	9	5.6
Freshmen	766	154	920	16.7	768	161	929	17.3	4	1.3
Special	0	0	0	0.0	0	0	0	0.0	0	0.0
Totals	1,758	399	2,157	18.5	1,365	525	1,890	27.8	44	4.8
EASTERN OREGON COLLEGE										
Graduate Assistants, Research Assistants, etc.	0	0	0	0.0	0	1	1	100.0	0	0.0
Other Graduates	11	76	87	87.4	17	67	84	79.8	5	3.5
Seniors	72	60	132	45.5	52	27	79	34.2	19	21.8
Juniors	98	53	151	35.1	68	48	116	41.4	23	22.8
Sophomores	157	26	183	14.2	122	28	150	18.7	12	22.2
Freshmen	301	57	358	15.9	273	68	341	19.9	8	6.4
Special	0	0	0	0.0	0	0	0	0.0	0	0.0
Totals	639	272	911	29.9	532	239	771	31.0	67	13.1
GRAND TOTAL - 5 INSTITUTIONS										
Graduate Assistants, Research Assistants, etc.	472	759	1,231	61.7	124	94	218	43.1	257	30.1
Other Graduates	1,212	2,399	3,611	66.4	715	871	1,586	54.9	579	17.7
Seniors	2,632	1,100	3,732	29.5	1,627	699	2,326	30.1	93	5.2
Juniors	3,174	774	3,948	19.6	2,101	601	2,702	22.2	67	4.9
Sophomores	4,291	516	4,807	10.7	3,578	440	4,018	11.0	46	4.8
Freshmen	4,663	335	4,998	6.7	4,380	375	4,755	7.9	15	2.1
Special	177	39	216	18.1	90	38	128	29.7	0	0.0
Totals	16,621	5,922	22,543	26.3	12,615	3,118	15,733	19.8	1,057	11.7

Table XXXVI has been prepared to analyze the male and female student enrollment in each class (year of academic standing) and the percentage of those male and female students who are married. In addition, the numbers and percentages of these married male and female students who are living in institutionally-owned property have been indicated for each of the five institutions.

For the five institutions, the percentage of married male students is highest in the other graduate category (66.4%) and graduate assistants (61.7%) and decreases with each lower academic year to the freshman level (6.7%). With the exception of the seniors and juniors at Southern Oregon College, the percentage of married male undergraduate students at the three regional institutions is somewhat higher than at either of the universities.

The percentage of married female students is highest in the other graduate category (54.9%), decreases to 43.1% for graduate assistants and research fellows and then decreases with each lower academic year to the freshman level (7.9%). The percentage of married female students at the three smaller institutions is somewhat higher than at either of the two universities.

A further analysis of married male and female students has been made in the last two columns of Table XXXVI. Here the numbers and percentages of married male and female students who are living in institutionally-owned housing have been listed for each of the five institutions. The overall percentage of such students is 11.7% (1,057 out of 9,040). On an institutional basis, this percentage varies from a low of 4.7% at Oregon College of Education and 4.8% at Southern Oregon College to a high of 18.7% at the University of Oregon. At the two universities, the highest percentage of married male and female students living in institutional housing is in the graduate and research fellow category, whereas at the other schools the percentage varies among the sophomore, junior and senior class levels.

TABLE XXXVII
COMPARISON OF MARRIED MALE STUDENT ENROLLMENTS
FALL TERMS 1966, 1967 and 1968

Institution	1968			1967			1966			Increase or (Decrease) in % of Male Students Married <u>1967-68</u> <u>1966-67</u>	
	Married		% Male Students Married	Married		% Male Students Married	Married		% Male Students Married		
	Male	Male		Male	Male		Male	Male			
OSU	9,193	2,146	23.3%	8,596	1,910	22.2%	8,345	1,768	21.2%	1.1%	2.1%
UO	8,862	2,652	29.9	8,263	2,323	28.1	7,848	2,105	26.8	1.8	3.1
OCE	1,420	453	31.9	1,231	425	34.5	1,155	360	31.2	(2.6)	0.7
SOC	2,157	399	18.5	2,022	339	16.8	1,936	317	16.4	1.7	2.1
EOC	911	277	29.9	836	204	24.4	793	169	21.3	5.6	8.6
TOTALS	22,543	5,922	26.3%	20,948	5,201	24.8%	20,077	4,719	23.5%	1.5%	2.8%

Table XXXVII is an analysis and comparison of data contained in line 2 (Male Student Enrollment) and line 3 (Married Male Student Enrollment) on Table XXXIII for the five institutions during Fall Terms 1966, 1967 and 1968. As indicated previously, 26.3% of the male students in the current term were married. This percentage represents an increase of 1.5% over Fall Term 1967 and an increase of 2.8% over Fall Term 1966. Eastern Oregon College reported the largest increase (5.6%) and Oregon College of Education reported a decrease of 2.6%.

Table XXXVII also indicates that the number of married male students increased from 5,201 in 1967 to 5,922 in 1968 for a net gain of 721 students in the five institutions. Of this increase, 329 may be attributed to the University of Oregon, 236 to Oregon State University, and 68 to Eastern Oregon College.

TABLE XXXVIII
SUMMARY ANALYSIS OF FAMILY HOUSING

	Condition	Life Expectancy	No. of Stories	No. of Units				Charges Per Month	Remarks
				Total	0-Bedrm	1-Bedrm	2-Bedrm		
OREGON STATE UNIVERSITY									
Orchard Court	Good	25	1 & 2	94	0	22	62	10	\$73-85-97
Campus Court	Poor	1	1	56	0	21	27	8	\$42-48-58 Temporary; to be removed
Misc. Houses & Apartments	Fair-Poor			<u>65</u>	<u>0</u>	<u>16</u>	<u>26</u>	<u>23</u>	Six units are used for offices, one for office storage, one for paint shop. To be removed as sites are required for campus development.
Total				<u>215</u>	<u>0</u>	<u>59</u>	<u>115</u>	<u>41</u>	
UNIVERSITY OF OREGON									
Westmoreland Village	Excel.	50	1 & 2	408	0	76	332	0	\$66-76
Amazon Apartments	Fair-Good	10	1 & 2	247	0	1	246	0	\$36 50-42.50 One of original units converted to nursery.
Misc. Housing Units				<u>86</u>	<u>0</u>	<u>30</u>	<u>33</u>	<u>23</u>	#Currently being used only for offices.
Total				<u>758</u>	<u>17</u>	<u>107</u>	<u>611</u>	<u>23</u>	

Of the grand total of 1,159 family living units available on the five campuses, only 518 (44.7%) have been completed within the last eight years. At Oregon State University, 94 new apartments in Orchard Court were completed for initial occupancy during the Fall Terms 1961 and 1963. At the University of Oregon, a total of 408 new apartments was completed in Westmoreland Village for initial occupancy between the Fall Terms 1960 and 1964. At Eastern Oregon College, 16 new apartments were completed by the Fall Term 1962. Otherwise, the present housing facilities for married students on all campuses consist primarily of temporary war surplus buildings obtained from the federal government. In general, these war surplus buildings are deteriorating rapidly and are expected to be removed within the next few years. Other properties have been acquired within the campus boundaries of the institutions, including residences of varying ages and conditions. These units are listed as miscellaneous houses, apartments or housing units and are generally in fair to good condition.

Oregon State University and the University of Oregon consider the temporary housing units to be safeguarded adequately against fire hazards with satisfactory repair and maintenance. The University of Oregon has installed automatic fire alarm systems and fire escapes in all two-story buildings within the Amazon Project. Oregon State University lists the Campus Court Project as "poor" with a life expectancy of only one year.

Institutional officials have advised the Board's office of the following policies concerning priorities of assignment within the family housing units described in this study:

Oregon State University: Orchard Court is reserved for graduate assistants and graduate students with a minimum of seven credit hours. Campus Court is assigned to students on a priority basis of first, graduate students; second, seniors; third, juniors; fourth, sophomores; and fifth, freshmen. These students must carry a minimum of eight credit hours. Miscellaneous housing is assigned by date of application.

University of Oregon: All assignments in married student housing are made by date of application and enrollment classification--graduate assistants, graduate students, seniors, juniors, sophomores, and freshmen, in that order. Each group is arranged by date of application. After assigning one classification, the housing office begins assigning the next classification.

Summary Analysis of Family Housing (Continued)

	Condition	Life Expectancy	No. of Stories	No. of Units				Charges Per Month	Remarks
				0- Total	1- Bedrm	2- Bedrm	3-more Bedrm		
OREGON COLLEGE OF EDUCATION									
The Village	Fair-Good	4	1 & 2	42	4	0	26	12	\$39-45-48
Misc. Houses	Fair	7		<u>1</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	\$50
Total				<u>43</u>	<u>4</u>	<u>0</u>	<u>27</u>	<u>12</u>	
SOUTHERN OREGON COLLEGE									
College Court Housing	Poor	1	1	12	0	12	0	0	\$31.50 To be replaced in very near future
Misc. Housing & Apartments	Poor-Excel.			38	0	4	21	13	To be removed as sites are required for campus development.
Misc. Apartments				<u>8</u>	<u>0</u>	<u>0</u>	<u>8</u>	<u>0</u>	
Total				<u>58</u>	<u>0</u>	<u>16</u>	<u>29</u>	<u>13</u>	
EASTERN OREGON COLLEGE									
Eocene Court (permanent)	Good	13	2	16	0	0	16	0	\$75
Eocene Court (Temporary)	Fair(23) Poor(20)	Indef.	1	43	0	0	43	0	\$45-55
Misc. Housing	Poor-Good			<u>26</u>	<u>0</u>	<u>4</u>	<u>9</u>	<u>13</u>	\$40 to 105
Total				<u>85</u>	<u>0</u>	<u>4</u>	<u>68</u>	<u>13</u>	
GRAND TOTAL - FIVE INSTITUTIONS				<u>1,159</u>	<u>21</u>	<u>186</u>	<u>850</u>	<u>102</u>	Total includes 241 misc. housing units.

Oregon College of Education and Eastern Oregon College consider the temporary housing units to be safeguarded adequately against fire hazards with satisfactory repair and maintenance. A few of the miscellaneous houses at Southern Oregon College are in poor condition, and the institution plans the sale and removal of these units within the near future. Southern Oregon College lists the College Court housing as being in poor condition. It is scheduled to be replaced soon.

The following policies are used in assignment to the family housing units described:

Oregon College of Education: Units are available to students on a first-come, first-served basis.

Southern Oregon College: Graduate students, seniors and juniors, in that order, are given preference over all others in the college married student housing units. Married veteran students are given preference over nonveteran married students in the quadruplexes. If units are available, faculty and civil service personnel may rent units, when necessary, for a maximum tenure of one year. Units are not rented to single students except as temporary dormitory space. Units will not be rented to noncollege-connected persons.

Eastern Oregon College: The EOCene Court apartments are available to married students only, on a first-come, first-serve basis.

Miscellaneous individual houses are available first to faculty, secondly to staff, thirdly to students, lastly to other occupants.

TABLE XXXIX

SUMMARY ANALYSIS OF TEMPORARY HOUSING FOR SINGLE STUDENTS (1)
FALL TERM 1968

	<u>Condition</u>	<u>Life Expectancy</u>	<u>No. of Stories</u>	<u>Capacity</u>		<u>Occupancy</u>		<u>Charges Per Term</u>	<u>General Comments</u>
				<u>Maximum</u>	<u>Rated</u>	<u>Men</u>	<u>Women</u>		
SOUTHERN OREGON COLLEGE									
Webster House	Good	10	1	11	11	11		\$65*	Three of 8 family units contain 8 single students and 1 faculty member and family
Rogers Apartments	Good	10	1	32	32	9		\$65*	
*Per student									
Total				43	43	20			
OREGON STATE UNIVERSITY									
2500 Monroe (use as a co-op)	Fair	2	2	24	24	24		\$200/mo. for 9 mo.	The institution plans for removal in two years
UNIVERSITY OF OREGON									
Sigma Alpha Mu (used as a co-op)	Good	30		34	34	34		\$4,800/ year	
GRAND TOTAL				101	101	78			

(1) Oregon College of Education and Eastern Oregon College did not have any temporary housing for single students during the Fall Term 1968.

Seventy eight single students were housed in temporary housing during Fall Term 1968. The number of single students accommodated in temporary housing has been reduced significantly during the past few years as a result of the construction of permanent dormitories. For example, during Fall Term 1965, 258 single students (mostly men) were housed in temporary facilities at Southern Oregon College and Oregon College of Education and 77 students were housed in a former hospital building at Oregon Technical Institute. During Fall Term 1966, 193 students were assigned temporary housing and this declined to 125 students during Fall Term 1967.

At Southern Oregon College, because of additional housing requirements, it has been necessary to use properties identified as the Webster House and the Rogers Apartments. The institution is completing the construction of additional residence halls and is anxious to discontinue the use of these temporary facilities as soon as possible.

APPENDIX

OREGON STATE BOARD OF HIGHER EDUCATION

CLASSROOM AND INSTRUCTIONAL LABORATORY SPACE UTILIZATION REPORT SUMMARIES FALL TERM 1968

<u>Summary Number</u>	<u>Title</u>
I	Summary Comparison of Classroom and Laboratory Scheduled Occupancy and Other Utilization Data, Fall Terms 1967 and 1968 (EOC, OCE, OSU, SOC, UO, PSC, and OTI)
II	Summary of Classroom and Laboratory Utilization Data, Fall Term 1968
III	Summary Comparison of Total Hours of Scheduled Occupancy of Classrooms and Laboratories Per Week, Fall Terms 1967 and 1968
IV	Summary Comparison of Average Hours of Scheduled Occupancy of Classrooms and Laboratories Per Week, Fall Terms 1967 and 1968
V	Summary Report of Scheduled Occupancy of Classrooms During Specified Intervals, Fall Term 1968
VI	Summary Report of Scheduled Occupancy of Laboratories During Specified Intervals, Fall Term 1968
VII	Summary Report of Scheduled Occupancy of Classroom Student Stations During Specified Intervals, Fall Term 1968
VIII	Summary Report of Scheduled Occupancy of Laboratory Student Stations During Specified Intervals, Fall Term 1968
IX	Summary of Scheduled Occupancy of Classrooms and Laboratories, Fall Term 1968
X	Summary of Scheduled Occupancy of Student Stations, Fall Term 1968
XI	Summary of Classroom and Laboratory Utilization Data, Fall Term 1968, University of Oregon Dental School and University of Oregon Medical School
XII	Summary Comparison of Scheduled Occupancy of Classrooms and Laboratories, Fall Terms 1967 and 1968, University of Oregon Dental School and University of Oregon Medical School
XIII	Summary Comparison of Total Hours of Scheduled Occupancy, Division of Continuing Education, Fall Terms 1967 and 1968
XIV	Summary of Hours of Scheduled Occupancy Per Week, Institutional and Division of Continuing Education, Fall Term 1968

Office of Business Affairs
February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY COMPARISON OF CLASSROOM AND LABORATORY SCHEDULED OCCUPANCY
AND OTHER UTILIZATION DATA, FALL TERMS 1967 AND 1968
(EOC, OCE, OSU, SOC, UO, PSC & OTI)

	<u>1967</u>	<u>1968</u>	<u>Increase (Decrease)</u>	<u>% Increase (Decrease)</u>
I. Enrollment (Full-time equivalent)	42,829	46,873	4,044	9.4%
II. Classrooms:				
a. Number of rooms	398	417	19	xxxx
b. Total square foot area	303,175	321,586	18,411	xxxx
c. Average area per FTE student	7.1	6.9	(0.2)	xxxx
d. Total number of student stations	21,924	23,260	1,336	xxxx
e. Average number of student stations per FTE student	0.51	0.50	(0.01)	xxxx
f. Average area per student station	13.8	13.8	0	xxxx
g. Total hours of scheduled occu- pancy of classrooms per week	14,118	14,694	576	4.1%
h. Average hours of scheduled occu- pancy of classrooms per week	35.5	35.2	(0.3)	(0.8%)
i. Total hours of scheduled occu- pancy of classroom student stations per week	506,045	543,547	37,502	7.4%
j. Average hours of scheduled occu- pancy of classroom student stations per week	23.1	23.4	0.3	1.3%
k. Space factor: assignable sq. ft. per 100 student station hours	59.9	59.2	(0.7)	(1.2%)
III. Laboratories:				
a. Number of rooms	410	446	36	xxxx
b. Total square foot area	495,505	535,316	39,811	xxxx
c. Average area per FTE student	11.6	11.4	(0.2)	xxxx
d. Total number of student stations	10,067	10,979	912	xxxx
e. Average number of student stations per FTE student	0.24	0.24	0	xxxx
f. Average area per student station	49.2	48.8	(0.4)	xxxx
g. Total hours of scheduled occu- pancy of laboratories per week	8,964	9,033	69	0.8%
h. Average hours of scheduled occu- pancy of laboratories per week	21.9	20.3	(1.6)	(7.3%)
i. Total hours of scheduled occu- pancy of laboratory student stations per week	179,402	184,481	5,079	2.8%
j. Average hours of scheduled occu- pancy of laboratory student stations per week	17.8	16.8	(1.0)	(5.6%)
k. Space factor: assignable sq. ft. per 100 student station hours	276.2	290.2	14.0	5.1%

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY OF CLASSROOM AND LABORATORY UTILIZATION DATA, FALL TERM 1968

	EOC	OCE	OSU	SOC	UO	PSC	OTI	TOTAL
I. ENROLLMENT (Full-time equivalent)	1,530	3,116	14,441	3,741	13,763	8,999	1,283	46,873
II. CLASSROOMS								
a. Number of rooms	15	28	120	44	110	87	13	417
b. Total square foot area	9,822	18,176	104,285	27,692	91,249	63,402	6,960	321,586
c. Average area per FTE student	6.4	5.8	7.2	7.4	6.6	7.0	5.4	6.9
d. Total number of student stations	706	1,275	7,234	1,834	7,092	4,699	420	23,260
e. Average number of student stations per FTE student	0.46	0.41	0.50	0.49	0.52	0.52	0.33	0.50
f. Average area per student station	13.9	14.3	14.4	15.1	12.9	13.5	16.6	13.8
g. Total hours of scheduled occupancy of classrooms per week	498	948	3,853	1,430	4,074	3,384	507	14,694
h. Average hours of scheduled occupancy of classrooms per week	33.2	33.9	32.1	32.5	37.0	38.9	39.0	35.2
i. Total hours of scheduled occupancy of classroom student stations per week	13,477	32,309	156,698	45,208	164,828	117,962	13,065	543,547
j. Average hours of scheduled occupancy of classroom student stations per week	19.1	25.3	21.7	24.6	23.2	25.1	31.1	23.4
k. Space factor: assignable square feet per 100 student station hours	72.9	56.3	66.6	61.3	55.4	53.7	53.3	59.2

Summary II

Office of Business Affairs
February 28, 1969

(Summary II - continued)

	EOC	OCE	OSU	SOC	UO	PSC	OTI	TOTAL
III. LABORATORIES								
a. Number of rooms	20	15	201	35	70	66	39	446
b. Total square foot area	22,004	11,781	225,377	33,488	74,449	62,836	105,381	535,316
c. Average area per FTE student	14.4	3.8	15.6	9.0	5.4	7.0	82.1	11.4
d. Total number of student stations	471	416	5,107	799	1,768	1,520	898	10,979
e. Average number of student stations per FTE student	0.31	0.13	0.35	0.21	0.13	0.17	0.70	0.24
f. Average area per student station	46.7	28.3	44.1	41.9	42.1	41.3	117.4	48.8
g. Total hours of scheduled occupancy of laboratories per week	376	395	3,610	689	1,375	1,466	1,122	9,033
h. Average hours of scheduled occupancy of laboratories per week	18.8	26.3	18.0	19.7	19.6	22.2	28.8	20.3
i. Total hours of scheduled occupancy of laboratory student stations per week	7,403	7,859	71,989	14,558	34,778	30,620	17,274	184,481
j. Average hours of scheduled occupancy of laboratory student stations per week	15.7	18.9	14.1	18.2	19.7	20.1	19.2	16.8
k. Space factor: assignable square feet per 100 student station hours	297.4	149.9	313.1	230.0	214.1	205.2	610.2	290.2

Summary II
page -2-Office of Business Affairs
February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY COMPARISON OF TOTAL HOURS OF SCHEDULED OCCUPANCY OF CLASSROOMS AND
LABORATORIES PER WEEK, FALL TERMS 1967 AND 1968

Institution	FTE Enrollment	Classrooms		Laboratories	
		Room Hours	Student Station Hours	Room Hours	Student Station Hours
Eastern Oregon College:					
1968	1,530	498	13,477	376	7,403
1967	1,491	498	14,346	382	7,176
Increase or (decrease)	39	0	(869)	(6)	227
% Increase or (decrease)	2.6%	0	(6.1%)	(1.6%)	3.2%
Oregon College of Education:					
1968	3,116	948	32,309	395	7,859
1967	2,641	873	27,518	499	8,606
Increase or (decrease)	475	75	4,791	(104)	(747)
% Increase or (decrease)	18.0%	8.6%	17.4%	(20.8%)	(8.7%)
Oregon State University:					
1968	14,441	3,853	156,698	3,610	71,989
1967	13,178	3,964	146,230	3,507	68,977
Increase or (decrease)	1,263	(111)	10,468	103	3,012
% Increase or (decrease)	9.6%	(2.8%)	7.2%	2.9%	4.4%
Southern Oregon College:					
1968	3,741	1,430	45,208	689	14,558
1967	3,458	1,300	40,346	537	12,459
Increase or (decrease)	283	130	4,862	152	2,099
% Increase or (decrease)	8.2%	10.0%	12.1%	28.3%	16.8%
University of Oregon:					
1968	13,763	4,074	164,828	1,375	34,778
1967	12,853	3,862	156,994	1,450	33,953
Increase or (decrease)	910	212	7,834	(75)	825
% Increase or (decrease)	7.1%	5.5%	5.0%	(5.2%)	2.4%
Portland State College:					
1968	8,999	3,384	117,962	1,466	30,620
1967	8,094	3,166	109,792	1,559	31,842
Increase or (decrease)	905	218	8,170	(93)	(1,222)
% Increase or (decrease)	11.2%	6.9%	7.4%	(6.0%)	(3.8%)
Oregon Technical Institute:					
1968	1,283	507	13,065	1,122	17,274
1967	1,114	455	10,819	1,030	16,389
Increase or (decrease)	169	52	2,246	92	885
% Increase or (decrease)	15.2%	11.4%	20.8%	8.9%	5.4%
TOTAL:					
1968	46,873	14,694	543,547	9,033	184,481
1967	42,829	14,118	506,045	8,964	179,402
Increase or (decrease)	4,044	576	37,502	69	5,079
% Increase or (decrease)	9.4%	4.1%	7.4%	0.8%	2.8%

Office of Business Affairs
February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY COMPARISON OF AVERAGE HOURS OF SCHEDULED OCCUPANCY OF
CLASSROOMS AND LABORATORIES PER WEEK, FALL TERMS 1967 AND 1968

<u>Institution</u>	<u>Classrooms</u>		<u>Laboratories</u>	
	<u>Room Hours</u>	<u>Student Station Hours</u>	<u>Room Hours</u>	<u>Student Station Hours</u>
Eastern Oregon College:				
1968	33.2	19.1	18.8	15.7
1967	31.1	20.3	19.1	15.2
Increase or (decrease)	2.1	(1.2)	(0.3)	0.5
% 1968 average is of objective	110.7%	106.1%	94.0%	98.1%
Oregon College of Education:				
1968	33.9	25.3	26.3	18.9
1967	32.3	22.4	26.3	19.3
Increase or (decrease)	1.6	2.9	0	(0.4)
% 1968 average is of objective	113.0%	140.6%	131.5%	118.1%
Oregon State University:				
1968	32.1	21.7	18.0	14.1
1967	32.0	19.6	19.1	15.0
Increase or (decrease)	0.1	2.1	(1.1)	(0.9)
% 1968 average is of objective	107.0%	120.6%	90.0%	88.1%
Southern Oregon College:				
1968	32.5	24.6	19.7	18.2
1967	35.1	29.3	24.4	20.9
Increase or (decrease)	(2.6)	(4.7)	(4.7)	(2.7)
% 1968 average is of objective	108.3%	136.7%	98.5%	113.8%
University of Oregon:				
1968	37.0	23.2	19.6	19.7
1967	36.1	23.7	22.3	20.0
Increase or (decrease)	0.9	(0.5)	(2.7)	(0.3)
% 1968 average is of objective	123.3%	128.9%	98.0%	123.1%
Portland State College:				
1968	38.9	25.1	22.2	20.1
1967	42.8	26.8	26.0	24.0
Increase or (decrease)	(3.9)	(1.7)	(3.8)	(3.9)
% 1968 average is of objective	129.7%	139.4%	111.0%	125.6%
Oregon Technical Institute:				
1968	39.0	31.1	28.8	19.2
1967	35.0	25.0	25.8	17.9
Increase or (decrease)	4.0	6.1	3.0	1.3
% 1968 average is of objective	130.0%	172.8%	144.0%	120.0%
TOTAL:				
1968	35.2	23.4	20.3	16.8
1967	35.5	23.1	21.9	17.8
Increase or (decrease)	(0.3)	0.3	(1.6)	(1.0)
% 1968 average is of objective	117.3%	130.0%	101.5%	105.0%

Office of Business Affairs
February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY REPORT OF SCHEDULED OCCUPANCY OF CLASSROOMS
DURING SPECIFIED INTERVALS, FALL TERM 1968Classrooms (417)
Scheduled occupancy by hour of the day
(EOC, OCE, OSU, SOC, UO, PSC, and OTI)

<u>Hour</u>	<u>Total hours of scheduled occupancy per week</u>	<u>Percent of rooms scheduled per week</u>	<u>Average hours of scheduled occupancy per week</u>	<u>Percent average is of minimum objective of 30 hours per week</u>
8 a.m.	1,141	54.7		
9	1,650	79.1		
10	1,700	81.5		
11	1,668	80.0		
Subtotal, morning hours	6,159	73.8		
12	1,144	54.9		
1 p.m.	1,539	73.8		
2	1,548	74.2		
3	1,232	59.1		
4	731	35.1		
Subtotal, afternoon hours	6,194	59.4		
Subtotal, 45-hour week	12,353	65.8	29.6	98.7
Saturday hours	108			
Other hours	1,110			
Total hours, 7 institutions	13,571		32.5	108.3
Continuation hours	1,123			
Grand total	14,694		35.2	117.3

Scheduled occupancy by day of the week
(EOC, OCE, OSU, SOC, UO, PSC, and OTI)

<u>Day</u>	<u>Total hours of scheduled occupancy per week</u>	<u>Percent of rooms scheduled per week</u>
Monday	2,706	72.1
Tuesday	2,182	58.1
Wednesday	2,687	71.6
Thursday	2,199	58.6
Friday	2,579	68.7
Subtotal, 45-hour week	12,353	65.8
Saturday morning	96	
Saturday afternoon	12	
Other hours	1,110	
Total hours, 7 institution	13,571	
Continuation hours	1,123	
Grand total	14,694	

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY REPORT OF SCHEDULED OCCUPANCY OF LABORATORIES
DURING SPECIFIED INTERVALS, FALL TERM 1968Laboratories (446)
Scheduled occupancy by hour of the day
(EOC, OCE, OSU, SOC, UO, PSC, and OTI)

Hour	Total hours of scheduled occupancy per week	Percent of rooms scheduled per week	Average hours of scheduled occupancy per week	Percent average is of minimum objective of 20 hours per week
8 a.m.	618	27.7		
9	981	44.0		
10	1,079	48.4		
11	1,015	45.5		
Subtotal, morning hours	3,693	41.4		
12	343	15.4		
1 p.m.	871	39.1		
2	1,190	53.4		
3	1,122	50.3		
4	815	36.5		
Subtotal, afternoon hours	4,341	38.9		
Subtotal, 45-hour week	8,034	40.0	18.0	90.0
Saturday hours	110			
Other hours	616			
Total hours, 7 institutions	8,760		19.6	98.0
Continuation hours	273			
Grand total	9,033		20.3	101.5

Scheduled occupancy by day of the week
(EOC, OCE, OSU, SOC, UO, PSC, and OTI)

Day	Total hours of scheduled occupancy per week	Percent of rooms scheduled per week
Monday	1,478	36.8
Tuesday	1,829	45.6
Wednesday	1,608	40.1
Thursday	1,825	45.5
Friday	1,294	32.2
Subtotal, 45-hour week	8,034	40.0
Saturday morning	82	
Saturday afternoon	28	
Other hours	616	
Total hours, 7 institutions	8,760	
Continuation hours	273	
Grand total	9,033	

Office of Business Affairs
February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY REPORT OF SCHEDULED OCCUPANCY OF CLASSROOM STUDENT STATIONS
DURING SPECIFIED INTERVALS, FALL TERM 1968

Classroom Student Stations (23,260)
Scheduled occupancy by hour of the day
(EOC, OCE, OSU, SOC, UO, PSC, and OTI)

<u>Hour</u>	<u>Total hours of scheduled occupancy per week</u>	<u>Percent of stations scheduled per week</u>	<u>Average hours of scheduled occupancy per week</u>	<u>Percent average is of minimum objective of 18 hours per week</u>
8 a.m.	46,978	40.4		
9	69,010	59.3		
10	72,268	62.1		
11	68,945	59.3		
Subtotal, morning hours	257,201	55.3		
12	50,062	43.0		
1 p.m.	57,597	49.5		
2	54,456	46.8		
3	41,556	35.7		
4	21,644	18.6		
Subtotal, afternoon hours	225,315	38.7		
Subtotal, 45-hour week	482,516	46.1	20.7	115.0
Saturday hours	3,037			
Other hours	29,459			
Total hours, 7 institutions	515,012		22.1	122.8
Continuation hours	28,535			
Grand total	543,547		23.4	130.0

Scheduled occupancy by day of the week
(EOC, OCE, OSU, SOC, UO, PSC, and OTI)

<u>Day</u>	<u>Total hours of scheduled occupancy per week</u>	<u>Percent of stations scheduled per week</u>
Monday	111,969	53.5
Tuesday	77,110	36.8
Wednesday	110,681	52.9
Thursday	76,556	36.6
Friday	106,200	50.7
Subtotal, 45-hour week	482,516	46.1
Saturday morning	2,757	
Saturday afternoon	280	
Other hours	29,459	
Total hours, 7 institutions	515,012	
Continuation hours	28,535	
Grand total	543,547	

Office of Business Affairs
February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY REPORT OF SCHEDULED OCCUPANCY OF LABORATORY STUDENT STATIONS
DURING SPECIFIED INTERVALS, FALL TERM 1968Laboratory Student Stations (10,979)
Scheduled occupancy by hour of the day
(EOC, OCE, OSU, SOC, UO, PSC, and OTI)

<u>Hour</u>	<u>Total hours of scheduled occupancy per week</u>	<u>Percent of stations scheduled per week</u>	<u>Average hours of scheduled occupancy per week</u>	<u>Percent average is of minimum objective of 16 hours per week</u>
8 a.m.	12,638	23.0		
9	20,611	37.5		
10	22,820	41.6		
11	21,432	39.0		
Subtotal, morning hours	77,501	35.3		
12	7,966	14.5		
1 p.m.	17,488	31.9		
2	23,290	42.4		
3	21,094	38.4		
4	15,513	28.3		
Subtotal, afternoon hours	85,351	31.1		
Subtotal, 45-hour week	162,852	33.0	14.8	92.5
Saturday hours	2,394			
Other hours	14,392			
Total hours, 7 institutions	179,638		16.4	102.5
Continuation hours	4,843			
Grand total	184,481		16.8	105.0

Scheduled occupancy by day of the week
(EOC, OCE, OSU, SOC, UO, PSC, and OTI)

<u>Day</u>	<u>Total hours of scheduled occupancy per week</u>	<u>Percent of stations scheduled per week</u>
Monday	29,785	30.1
Tuesday	36,729	37.2
Wednesday	32,985	33.4
Thursday	36,221	36.7
Friday	27,132	27.5
Subtotal, 45-hour week	162,852	33.0
Saturday morning	1,742	
Saturday afternoon	652	
Other hours	14,392	
Total hours, 7 institutions	179,638	
Continuation hours	4,843	
Grand total	184,481	

Office of Business Affairs
February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY OF SCHEDULED OCCUPANCY OF CLASSROOMS AND LABORATORIES
FALL TERM 1968

<u>Institution</u>	<u>Number of Rooms</u>	<u>Hours of Scheduled Occupancy Per Week</u>		<u>Percent Average is of Minimum Objective</u>
		<u>Total</u>	<u>Average</u>	
A. Classrooms				
Eastern Oregon College	15	498	33.2	110.4
Oregon College of Education	28	948	33.9	113.0
Oregon State University	120	3,853	32.1	107.0
Southern Oregon College	44	1,430	32.5	108.3
University of Oregon	110	4,074	37.0	123.3
Portlant State College	87	3,384	38.9	129.7
Oregon Technical Institute	<u>13</u>	<u>507</u>	<u>39.0</u>	<u>130.0</u>
Totals	417	14,694	35.2	117.3

Objective expected for Oregon tax-supported institutions:

Maximum practicable level of utilization and, except where special conditions at a particular institution justify a different objective, to achieve an average number of hours of scheduled occupancy in classrooms of no less than 30.0

B. Laboratories

Eastern Oregon College	20	376	18.8	94.0
Oregon College of Education	15	395	26.3	131.5
Oregon State University	201	3,610	18.0	90.0
Southern Oregon College	35	689	19.7	98.5
University of Oregon	70	1,375	19.6	98.0
Portland State College	66	1,466	22.2	111.0
Oregon Technical Institute	<u>39</u>	<u>1,122</u>	<u>28.8</u>	<u>144.0</u>
Totals	446	9,033	20.3	101.5

Objective expected for Oregon tax-supported institutions:

Maximum practicable level of utilization and, except where special conditions at a particular institution justify a different objective, to achieve an average number of hours of scheduled occupancy in laboratories of no less than 20.0

Office of Business Affairs
February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION
SUMMARY OF SCHEDULED OCCUPANCY OF STUDENT STATIONS
FALL TERM 1968

<u>Institution</u>	<u>Number of Student Stations</u>	<u>Hours of Scheduled Occupancy Per Week</u>		<u>Percent Average is of Minimum Objective</u>
		<u>Total</u>	<u>Average</u>	
A. Classroom Student Stations				
Eastern Oregon College	706	13,477	19.1	106.1
Oregon College of Education	1,275	32,309	25.3	140.6
Oregon State University	7,234	156,698	21.7	120.6
Southern Oregon College	1,834	45,208	24.6	136.7
University of Oregon	7,092	164,828	23.2	128.9
Portland State College	4,699	117,962	25.1	139.4
Oregon Technical Institute	<u>420</u>	<u>13,065</u>	<u>31.1</u>	<u>172.8</u>
Totals	23,260	543,547	23.4	130.0

Objective expected for Oregon tax-supported institutions:
 Maximum practicable level of utilization and, except
 where special conditions at a particular institution
 justify a different objective, to achieve an average
 number of hours of scheduled occupancy in classroom
 student stations of no less than 18.0

B. Laboratory Student Stations

Eastern Oregon College	471	7,403	15.7	98.1
Oregon College of Education	416	7,859	18.9	118.1
Oregon State University	5,107	71,989	14.1	88.1
Southern Oregon College	799	14,558	18.2	113.8
University of Oregon	1,768	34,778	19.7	123.1
Portland State College	1,520	30,620	20.1	125.6
Oregon Technical Institute	<u>898</u>	<u>17,274</u>	<u>19.2</u>	<u>120.0</u>
Totals	10,979	184,481	16.8	105.0

Objective expected for Oregon tax-supported institutions:
 Maximum practicable level of utilization and, except
 where special conditions at a particular institution
 justify a different objective, to achieve an average
 number of hours of scheduled occupancy in laboratory
 student stations of no less than 16.0

Office of Business Affairs
 February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY OF CLASSROOM AND LABORATORY UTILIZATION DATA, FALL TERM 1968
UNIVERSITY OF OREGON DENTAL SCHOOL AND UNIVERSITY OF OREGON MEDICAL SCHOOL

	<u>UODS</u>	<u>UOMS</u>
I. Enrollment (Full-time equivalent)	398	866
II. Classrooms:		
a. Number of rooms	11	20
b. Total square foot area	7,664	12,974
c. Average area per FTE student	19.3	15.0
d. Total number of student stations	584	1,011
e. Average number of student stations per FTE student	1.47	1.17
f. Average area per student station	13.1	12.8
g. Total hours of scheduled occupancy of classrooms per week	146	570
h. Average hours of scheduled occupancy of classrooms per week	13.3	28.5
i. Total hours of scheduled occupancy of classroom student stations per week	5,285	17,725
j. Average hours of scheduled occupancy of classroom student stations per week	9.0	17.5
k. Space factor: assignable square feet per 100 student station hours	145.0	73.2
III. Laboratories		
a. Number of rooms	9	10
b. Total square foot area	29,226	12,852
c. Average area per FTE student	73.4	14.8
d. Total number of student stations	627	483
e. Average number of student stations per FTE student	1.58	0.56
f. Average area per student station	46.6	26.6
g. Total hours of scheduled occupancy of laboratories per week	180	96
h. Average hours of scheduled occupancy of laboratories per week	20.0	9.6
i. Total hours of scheduled occupancy of laboratory student stations per week	7,843	4,484
j. Average hours of scheduled occupancy of laboratory student stations per week	12.5	9.3
k. Space factor: assignable square feet per 100 student station hours	373.0	286.6

Office of Business Affairs
February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY COMPARISON OF SCHEDULED OCCUPANCY OF CLASSROOMS AND LABORATORIES
FALL TERMS 1967 AND 1968
UNIVERSITY OF OREGON DENTAL SCHOOL AND UNIVERSITY OF OREGON MEDICAL SCHOOL

A. Total Hours of Scheduled Occupancy per Week

	F.T.E. Enrollment	Classrooms		Laboratories	
		Room Hours	Student Station Hours	Room Hours	Student Station Hours
Univ. of Oregon Dental School					
1968	398	146	5,285	180	7,843
1967	396	167	5,181	174	7,847
Increase or (decrease)	2	(21)	104	6	(4)
% increase or (decrease)	0.5%	(12.6%)	2.0%	3.4%	(0.05%)
Univ. of Oregon Medical School:					
1968	866	570	17,725	96	4,484
1967	831	567	17,587	106	4,299
Increase or (decrease)	35	3	138	(10)	185
% increase or (decrease)	4.2%	0.5%	0.8%	(9.4%)	4.3%

B. Average Hours of Scheduled Occupancy per Week

	Classrooms		Laboratories	
	Room Hours	Student Station Hours	Room Hours	Student Station Hours
Univ. of Oregon Dental School				
1968	13.3	9.0	20.0	12.5
1967	13.9	8.6	19.3	12.6
Increase or (decrease)	(0.6)	0.4	0.7	(0.1)
% increase or (decrease)	(4.3%)	4.7%	3.6%	(0.8%)
Univ. of Oregon Medical School				
1968	28.5	17.5	9.6	9.3
1967	24.7	16.0	10.6	8.9
Increase or (decrease)	3.8	1.5	(1.0)	0.4
% increase or (decrease)	15.4%	9.4%	(9.4%)	4.5%

Office of Business Affairs
February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY COMPARISON OF TOTAL HOURS OF SCHEDULED OCCUPANCY
DIVISION OF CONTINUING EDUCATION
FALL TERMS 1967 AND 1968

<u>Institution</u>	<u>Classrooms</u>		<u>Laboratories</u>	
	<u>Room Hours</u>	<u>Student Station Hours</u>	<u>Room Hours</u>	<u>Student Station Hours</u>
Eastern Oregon College:				
1968	0	0	0	0
1967	3	57	0	0
Increase or (decrease)	(3)	(57)	0	0
Oregon College of Education:				
1968	33	633	0	0
1967	33	630	6	48
Increase or (decrease)	0	3	(6)	(48)
Oregon State University:				
1968	101	2,194	24	415
1967	186	4,127	49	1,018
Increase or (decrease)	(85)	(1,933)	(25)	(603)
Southern Oregon College:				
1968	0	0	0	0
1967	9	189	0	0
Increase or (decrease)	(9)	(189)	0	0
University of Oregon:				
1968	172	4,462	9	177
1967	162	3,978	18	333
Increase or (decrease)	10	484	(9)	(156)
Portland State College:				
1968	745	20,221	177	3,496
1967	647	18,616	272	4,985
Increase or (decrease)	98	1,605	(95)	(1,489)
Oregon Technical Institute:				
1968	72	1,025	63	755
1967	62	1,086	42	384
Increase or (decrease)	10	(61)	21	371
TOTALS:				
1968	1,123	28,535	273	4,843
1967	1,102	28,683	387	6,768
Increase or (decrease)	21	(148)	(114)	(1,925)

Office of Business Affairs
February 28, 1969

OREGON STATE BOARD OF HIGHER EDUCATION

SUMMARY OF HOURS OF SCHEDULED OCCUPANCY PER WEEK
INSTITUTIONAL AND DIVISION OF CONTINUING EDUCATION
FALL TERM 1968

A. Scheduled Occupancy of Rooms

	No. of <u>Rooms</u>	Institu- tional <u>Hours</u>	DCE <u>Hours</u>	Total <u>Hours</u>	<u>Average Hours Per Room</u>	
					<u>Institu- tional</u>	<u>Total</u>
Classrooms						
Eastern Oregon College	15	498	0	498	33.2	33.2
Oregon College of Education	28	915	33	948	32.7	33.9
Oregon State University	120	3,752	101	3,853	31.3	32.1
Southern Oregon College	44	1,430	0	1,430	32.5	32.5
University of Oregon	110	3,902	172	4,074	35.5	37.0
Portland State College	87	2,639	745	3,384	30.3	38.9
Oregon Technical Institute	13	435	72	507	33.5	39.0
Subtotals	417	13,571	1,123	14,694	32.5	35.2
Univ. of Oregon Dental School	11	146	0	146	13.3	13.3
Univ. of Oregon Medical School	20	570	0	570	28.5	28.5
Totals	448	14,287	1,123	15,410	31.9	34.4
Laboratories						
Eastern Oregon College	20	376	0	376	18.8	18.8
Oregon College of Education	15	395	0	395	26.3	26.3
Oregon State University	201	3,586	24	3,610	17.8	18.0
Southern Oregon College	35	689	0	689	19.7	19.7
University of Oregon	70	1,366	9	1,375	19.5	19.6
Portland State College	66	1,289	177	1,466	19.5	22.2
Oregon Technical Institute	39	1,059	63	1,122	27.2	28.8
Subtotals	446	8,760	273	9,033	19.6	20.3
Univ. of Oregon Dental School	9	180	0	180	20.0	20.0
Univ. of Oregon Medical School	10	96	0	96	9.6	9.6
Totals	465	9,036	273	9,309	19.4	20.0

OREGON STATE BOARD OF HIGHER EDUCATION

B. Scheduled Occupancy of Student Stations

	No. of Student Stations	Institu- tional Hours	DCE Hours	Total Hours	Average Hours per Student Station	
					Institu- tional	Total
Classroom Student Stations						
Eastern Oregon College	706	13,477	0	13,477	19.1	19.1
Oregon College of Education	1,275	31,676	633	32,309	24.8	25.3
Oregon State University	7,234	154,504	2,194	156,698	21.4	21.7
Southern Oregon College	1,834	45,208	0	45,208	24.6	24.6
University of Oregon	7,092	160,366	4,462	164,828	22.6	23.2
Portland State College	4,699	97,741	20,221	117,962	20.8	25.1
Oregon Technical Institute	420	12,040	1,025	13,065	28.7	31.1
Subtotals	23,260	515,012	28,535	543,547	22.1	23.4
Univ. of Oregon Dental School	584	5,285	0	5,285	9.0	9.0
Univ. of Oregon Medical School	1,011	17,725	0	17,725	17.5	17.5
Totals	24,855	538,022	28,535	566,557	21.6	22.8

Laboratory Student Station

Eastern Oregon College	471	7,403	0	7,403	15.7	15.7
Oregon College of Education	416	7,859	0	7,859	18.9	18.9
Oregon State University	5,107	71,574	415	71,989	14.0	14.1
Southern Oregon College	799	14,558	0	14,558	18.2	18.2
University of Oregon	1,768	34,601	177	34,778	19.6	19.7
Portland State College	1,520	27,124	3,496	30,620	17.8	20.1
Oregon Technical Institute	898	16,519	755	17,274	18.4	19.2
Subtotals	<u>10,979</u>	<u>179,638</u>	<u>4,843</u>	<u>184,481</u>	<u>16.4</u>	<u>16.8</u>
Univ. of Oregon Dental School	627	7,843	0	7,843	12.5	12.5
Univ. of Oregon Medical School	483	4,484	0	4,484	9.3	9.3
Totals	<u>12,089</u>	<u>191,965</u>	<u>4,843</u>	<u>196,808</u>	<u>15.9</u>	<u>16.3</u>

APPENDIX B

OREGON STATE BOARD OF HIGHER EDUCATION

Space Utilization Objectives and Standards Recommended for Building Planning Adopted at June 12, 1962 Meeting of the Board of Higher Education

Space Utilization

A. Room Use (Substantially as adopted by Board of Higher Education, July 26, 1960):

Classrooms - The expected utilization of classroom space at each institution shall be at the maximum practicable level. The objective shall be to achieve an average classroom use of 30 scheduled hours per week (representing 70 percent utilization of rooms during a 44-hour week), except where special conditions at a particular institution justify a different objective.

Laboratories - The expected utilization of teaching laboratories at each institution shall be at the maximum practicable level. The objective shall be to achieve an average laboratory use of 20 scheduled hours per week (representing 45 percent utilization of rooms during a 44-hour week), except where special conditions at a particular institution justify a different objective.

B. Student Station Use:

Classrooms - Average use of 18 scheduled hours per week (representing 60 percent of the 30 hours of room use indicated above, which is equal to approximately 41 percent utilization during a 44-hour week).

Laboratories - Average use of 16 scheduled hours per week (representing 80 percent of the 20 hours of laboratory use indicated above, which is equal to approximately 36 percent utilization during a 44-hour week).

C. Physical Education Activity Areas: The expected utilization of each teaching station for scheduled sections of physical education instruction shall not be less than 30 hours per week.

Note: It is anticipated that these objectives of room and student station use shall apply to the fall term when enrollments are slightly higher than those of other terms of the academic year.

Space Utilization Objectives
and Standards (Continued)

Building Standards

A. Classrooms: Typical Sizes:

<u>No. of Student Stations</u>	<u>Sq. Ft. Area per Student Station</u>	<u>Sq. Ft. Area of Room</u>
15	20	300
20	17.5	350
25	16	400
30	15	450
40	14.2	568
50	13.5	675
60	13	780
80	12	960
100	11	1100
125	10	1250
200	9	1800

These standards apply to general purpose classrooms only. Special equipment (extra blackboards, audio-visual aids equipment, etc.) or specialized instruction requirements may change the standard for other classrooms.

B. Laboratories:

For laboratories accommodating typical courses in science, social science, etc., a standard of 30-50 square feet per station may be used depending on individual requirements. An additional 20 percent is normally allowed for storage and preparation areas directly associated with these laboratories. Such a standard assumes a total laboratory size of approximately 30-40 stations. Laboratories smaller than this would require larger average areas per student station; laboratories with more stations would require smaller average areas per student station.

More advanced and specialized courses may require different areas per student station.

C. Faculty Offices:

Except where the space needs for special equipment, such as pianos, drafting tables, etc., require a larger area, planning for the construction of offices for the teaching staff shall be based upon an overall objective of an average of 100 square feet per full-time faculty member. Individual objectives by academic rank are not proposed to be established in recognition of needs of different teaching positions, nor is it proposed that the type of occupancy be designated (multiple or single).

Space Utilization Objectives
and Standards (Continued)

D. Administrative Offices: Suggested areas for selected positions:

<u>Position</u>	<u>Square Feet per Station</u>
College dean or director	200
Department head	150
Administrative assistant	100
Secretary	75
Clerk stenographer (multiple office)	50
Typist (multiple office)	50

E. Libraries:

Seating accommodations are to be provided for approximately 25 percent of the student body at an average of 25 square feet per reader station.

Stack space is to be provided on the basis of an average of 15 volumes per square foot of floor area. Normally, stack sections are seven shelves in height, but some sections provide fewer shelves for larger volumes.

F. Dormitories: Formally adopted by Board of Higher Education, June 13, 1961:

1. "For residence halls including kitchen and dining areas either within the dormitory building or an allocable area in a different building, the gross area per student, based upon the outside dimensions of a building, would, in general, range between 215-235 square feet."
2. "For kitchen and dining facilities, included in the area referred to in Item 1 above, regardless of the location thereof, the approximate gross area per resident would range between 30-40 square feet."
3. "For a typical two-student bedroom, one-half of which area is included in Item 1 above, the net inside room area would be about 140-180 square feet."

G. Other building areas:

The above listing of major building areas is not intended to be all inclusive of the various types of space required for higher education but is limited to a few typical functional areas which may be subject to some degree of standardization. In planning physical facilities of all kinds, it shall be the objective to provide the minimum space required for the most effective use thereof.

OREGON STATE SYSTEM OF HIGHER EDUCATION

The Oregon State System of Higher Education was organized in 1932 by the State Legislative Assembly following a survey of higher education in Oregon by the U. S. Office of Education. Member institutions are elements of an articulated system, parts of an integrated whole. The educational program is so organized as to distribute as widely as possible throughout the state the opportunities for general education and to center on a particular campus specialized, technical, and professional curricula closely related to one another.

The institutions of the State System of Higher Education are Eastern Oregon College at La Grande, Oregon College of Education at Monmouth, Oregon State University at Corvallis, Southern Oregon College at Ashland, University of Oregon at Eugene, Portland State University at Portland, and Oregon Technical Institute at Klamath Falls. The University of Oregon Medical School and the University of Oregon Dental School are located in Portland. The Division of Continuing Education, representing all the institutions, has offices in Ashland, Corvallis, Eugene, La Grande, Monmouth, Portland, Roseburg, and Salem.